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Released for printing: October 25, 1984

Petroleum Supply Monthly



August 1984

²ublished: Dotober 1984

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Energy Information Administration Washington, D.C. 20585

DOE/EIA-0109(84/08) Dist. Category UC-98



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The Energy Information Administration (EIA) has announced that petroleum supply statistics are now available on two magnetic tapes. One tape contains final 1983 petroleum supply statistics by month, taken from the *Petroleum Supply Annual*; the other contains 1984 statistics to date by month, from the *Petroleum Supply Monthly*. The first monthly tape released will be for the period January through June 1984. The monthly tape will be updated each month with the latest month's statistics. Both tapes include full documentation.

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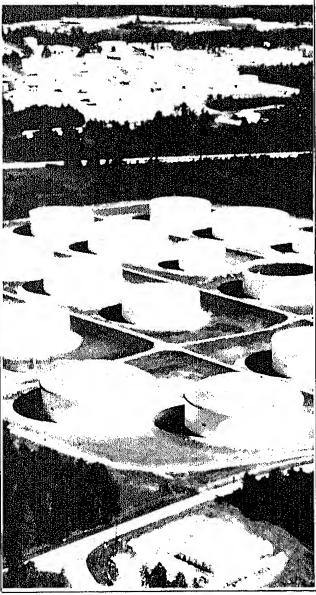
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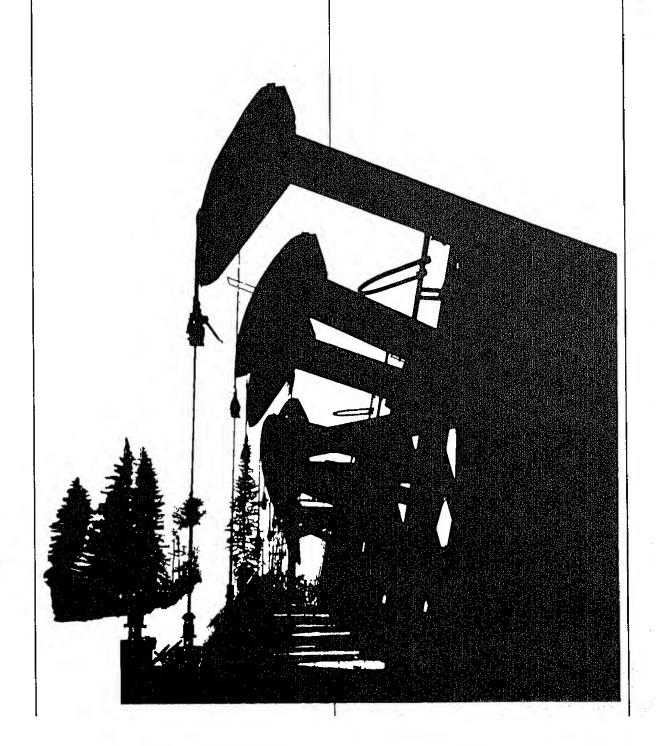
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Articles

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Petroleum Supply Summary

		September			Cumulative January Through September		
Average Volume for Period (Million Barrels Per Day)	1984	1983	% Change	1984	1983	% Change	
Products Supplied							
Motor Gasoline	6.8	6.7	1.7	6.7	6.6	1.8	
Distillate Fuel Oil	2.7	2.6	6.7	2.9	2.6	10.1	
Residual Fuel OII	1,3	1.4	- 7 .0	1.4	1.4	- 0.1	
Other Products	5.0	4.9	3.9	4.8	4.4	8.7	
Total	15.9	15.5	2.4	15.8	15.1	5.1	
Crude inputs to Refineries	12.5	12.5	- 0.1	12.1	11.7	3.6	
Production							
Crude Oll, Natural Gas							
Liquids, and Other	10.5	10.4	0.1	10.4	10.3	1.0	
Imports						0.0	
Crude Oll ²	3.1	3.9	- 20.4	3.2	3.1	3.0	
SPR	0.1	0.3	- 79.0	0.2	0.2	- 22.5	
Products	1.8	1.9	- 6.8	2.0	1.7	18.0	
Total	5.0	6.1	19.1	5.4	5.0	6.7	
Exports					2.2	7.5	
Crude Oil	0.2	0.2	7.3	0.2	0.2	7.5	
Products	0.5	0.5	6.9	0.5	0.6	14.9	
Total	0.7	0.7	7.0	0.7	8.0	10.1	
Stock Withdrawal							
Crude Oll ²	0.4	0.1	_	0.1	(s)		
Products	- 0.2	- 0.6		(s)	0.1		
Stocks at End of Period (Million Barrels)							
Crude Oll							
SPR	432	361	19.5				
Other	331	347	 4 ,6				
Total	762	708	7.7				
Products							
Motor Gasoline ³	229	229	(s)				
Distillate Fuel Oil	142	154	- 7.5				
Residual Fuel Oll	44	50	 10.5				
Other	330	345	- 4.4				
Totai	746	778	- 4.1				
Total Crude Oil and Products	1,508	1,485	1 .5	i.			

¹ Includes alcohol and other hydrocarbon liquids.

 1 includes alconol and other hydrocarbon liquids.
 2 Excludes Strategic Petroleum Reserve (SPR).
 3 Including blending components.
 (s) = Less than 0.05 million barrels per day or less than 0.05 percent.
 NOTE: Percent changes are based on unrounded values. September 1984 data are estimates based on weekly data, except for exports, NGL production, other hydrocarbons, and alcohol which are August 1984 monthly values. Totals may not be equal to sum of components due to independent rounding.

Source: Energy Information Administration, *Petroleum Supply Monthly*, August 1984.

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Recent Trends in Primary Petroleum Storage Capacity

A common perception of inventory is of product being stored pending sale or final consumption. The Energy Information Administration (EIA), however, reports petroleum inventory levels that count orude oil, refinery feedstocks and blendstocks, and finished product at select points along the entire production and primary distribution chain. This article summarizes available information on storage capacity at these points based on a recent EIA evaluation of primary petroleum distribution system capabilities for holding and moving product. That review included data from the Bureau of the Census and the National Petroleum Council.

Total private capacity to store crude oil increased between 1977 and 1983, while that for products declined. Changes in the location and form of petroleum storage reflect an effort by the Industry to increase marketing flexibility. For example, most of the increased capacity to store crude oil was at refineries. Similarly, product storage capacity at refineries also increased, offset by significant declines at bulk terminals—that is, at locations closer to the point of consumption.

The Petroleum Distribution System

Storage is integral to the operation of the petroleum distribution system. This system begins with the production and storage of crude oil in the field and ends with the storage and consumption of products by end users (see Figure 1). Throughout the system, scheduling is one of the most important reasons for having

Figure 1. The Petroleum Distribution System **Domestic Production** Gathering Systems, Lease Tankage Domestic Crude Oil **Transportation Network** Pipelines, Tankers, Barges, Crude Oil Tank Cars, Tank Trucks and Product Imports Refineries Crude Oil Inventories, Unfinished Oils, **Primary** Oils in Process Units and Equipment, Distribution Finished Product Inventories System Domestic Product Transportation Network Bulk Terminals, Pipelines, Tankers Barges, Tank Cars, Tank Trucks Product **Bulk Plants** Secondary Exports Fuel Oil Dealers Distribution Gasoline Service Stations System Tertiary Consumers Sector

storage, whether to smooth out crude oil shipments, maintain refinery processing levels, transport product to distributors and end users, or support steady enduse consumption levels.

Primary distribution in the domestic petroleum industry includes activities related to the production, transportation, and refining of crude oil; the biending of products; and the transportation of finished products to large distribution centers by pipeline, ship, or barge.

The secondary distribution system moves products from delivery terminals in the primary distribution system to retail outlets or directly to end-use consumers. Secondary storage in this system represents a buffer between the primary supply and the changing demands of consumers. Secondary storage facilities include storage at bulk plants, fuel oil dealerships, and gaso-line/diesel retail outlets.

Tertiary storage consists of products held by consumers. For example, households and businesses that heat with distillate fuel oil will have their own on-site storage tanks. Generally, products held in tertiary storage cannot be redirected to other end users as market conditions dictate. While tertiary inventory levels at electric utilities are reported to the EIA, they are generally not readily available for other energy consuming sectors of the economy.

Changes In secondary or tertiary storage capacity affect storage requirements of the primary distribution system. Efforts to build secondary stocks, for example, will be reflected immediately in the drawdown of primary stocks. The extent of the secondary distribution network and the level of storage capacity maintained by consumers of a particular fuel Indicate the potential for increased claims on primary inventories of that fuel. A recent study by the National Petroleum Council (NPC, 1984) Indicates that total secondary storage capacity and inventories for refined products in this country at the end of March 1983 were 153 million barrels and 48 million barrels, respectively. The same study reported tertlary storage capacity and inventory estimates of 642 million barrels and 269 million barrels, respectively. NPC estimates of primary storage capacity are discussed on pages xvI and xvII.

Primary Petroleum Distribution

Virtually all crude oil storage resides within the primary distribution system. Significant holdings of crude oil are found on the lease (where the oil is produced), within the crude oil transportation system, and at refinerles. Primary storage capacity for refined products is maintained at refinerles, in pipeline networks, and at bulk terminals.

Domestic Crude Oil Production

The primary distribution system begins with the production of crude oil in the field and its delivery to refinerles. Because crude oil is produced in the field on a continuous basis, but is often transported in batches, storage is needed to accommodate the efficient scheduling of crude oil movements.

To accommodate differences between the rate at which crude oil is produced and the rate at which it can be removed, "lease" storage is maintained in the form of tanks on or near the production lease site. This lease storage also supports the basic measurement, assaying, purification, and gas separation operations that are part of the crude oil production process.

From onshore lease tanks, crude oil is usually transported in segregated batches by small pipeline gathering systems, tank trucks, or tank cars to a trunk pipeline tank farm (a site with several storage tanks).

Crude oil is also accumulated and stored at offshore production facilities. Oil from offshore producing wells is commonly brought by sub-sea gathering lines to a central production platform before shipment through larger trunk pipelines to coastal storage facilities. Additional offshore storage is needed if the oil is to be transported ashore by ship, but, to date, pipelines are the predominant transportation mode for offshore production in this country.

Petroleum Imports

Crude oil and finished product also enter the primary distribution system as imports from foreign countries. For 1983, non-Strategic Petroleum Reserve Imports of crude oil averaged 26.5 percent of total refinery crude oil inputs. Imports enter primarily at marine terminals, which may be connected directly to a refinery or connected to a pipeline for distribution farther inland. Storage is needed at marine terminals to accommodate the unloading of large batches from tankers. Additional offshore storage to support transhipment activities (the transfer of oil to smaller tankers from larger ones that cannot be docked in port) may be required. Some imports enter the system overland by trunk pipeline and by truck, mainly from Canada, which supplied about 8 percent of the Nation's total crude oil imports in 1983. Marine terminal storage associated with petroleum product imports is counted with bulk terminals, discussed below (see page xv).

Strategic Petroleum Reserve

A third potential source of crude oil for the Nation's refineries is the U.S. Strategic Petroleum Reserve (SPR). The SPR began storing crude oil in 1977, and by the end of 1983 its 379 million barrels accounted for well over half of the total domestic holdings of crude oil. By the end of June 1984, SPR stocks were at 414 million barrels—enough to offset current non-SPR crude oil import levels for almost 4 months. Most of the SPR crude oil is stored in salt domes at five sites along the Texas and Louislana Gulf Coasts. There is further storage at a marine terminal on the Mississippi River, and construction is proceeding at existing sites and at one new site in Texas. The total fill presently planned for the reserve is 750 million barrels.

¹Bulk plants, or stations, are distinguished from bulk terminals in EIA and Census Bureau reporting as storage facilities that have a total storage capacity of less than 50,000 barrels and do not receive petroleum products by barge, ship, or pipeline.

Crude Oil Transportation

The principal mode for moving domestic oil production to refineries is the pipeline. However, during 1983, about 31 percent of the total crude oil received at the Nation's refineries was transported to the refineries via barge or tanker. Water transportation, is also significant for finished product.

Main trunk pipelines carry crude oil to distribution hubs for further shipment or to refining centers directly. Tank farm storage is maintained along the pipeline and at the pipeline connection points to facilitate continuous operation of the pipeline in transporting crude oil in segregated batches between the producing and refining regions. Storage is also used as a temporary outlet for the oil during cleaning or other pipeline maintenance operations. Crude oil may be transported from major terminuses to refineries by smaller pipelines or, less frequently, by other transportation modes.

Petroleum Refining

The next point in the primary distribution system where storage is needed is at refinerles. Storage supports the efficient operation of refineries as well as the efficient operation of crude oil and refined product transportation systems.

Whether a refinery is in a continuous operation mode or shut down for maintenance, it still receives crude oil on a batch basis. Refineries need to maintain storage capacity so that the crude oil transportation system can operate efficiently. On the input side, they require enough capacity to receive large shipments of crude oil—in a single day a tanker may offload up to a 10-day supply of oil to a refinery.

Refineries also require crude oil, unfinished oil, and finished product tankage to ensure efficient scheduling of refinery operations. it is necessary to have adequate volumes of crude oil on hand to sustain refining operations in the event of delivery lags or more serious supply disruptions. Similarly, refineries maintain finished product stocks as a buffer to support product sales during scheduled maintenance shutdowns or in the event of unanticipated supply disruptions or production delays. In addition, the operation of processing units requires a certain amount of crude oil and unfinished product fill. Although not normally considered as storage capacity, this product fill is counted as inventory, and refineries may, in effect, hold more or less product in process by utilizing varying degrees of their throughput capacity.

Finally, refineries need storage so that they can accumulate finished output until either minimum shipment volumes are amassed or sufficient product demand materializes. In particular, the ability to store products in the offseason (e.g., gasoline storage in the winter and spring, distillate in the summer and fall) helps refineries maintain a steadler level of operation year round, thereby lowering operating costs.

Product Transportation

Refined product is distributed from refinery centers by pipeline, tanker, barge, rail, and truck. About 1.2 billion barrels of product were transported between Petroleum Administration for Defense (PAD) districts by pipeline in 1983, representing 22 percent of the total product supplied in that year. (This excludes interim shipments to other than uitimate users.) At the same time, another 600 million barrels were transported between PAD districts by tanker and barge, accounting for 11 percent of product supplied. (Most domestic product is consumed in the region where it is produced and, thus, is not counted in these estimates.)

Plpelines operate most efficiently when they are fuil and the product is moving. To maintain a continuous flow (I.e., to avoid holding up movement while waiting on a batch delivery), storage is needed at the beginning, along the way at transfer points, and at the end of the pipeline system. Tank farms exist so that product in transit may be sidetracked for sorting, measuring, rerouting, or simply for holding temporarily during repairs to the line or pump station. Wherever pipeline sizes change, "break out" tankage is usually needed.

Product pipelines operate by moving product in segregated batches. Between each batch is an "interface," and the mixture of batch types on either side of the interface is called "transmix." Percentage loss of clean product due to transmix is minimized by handling large batches. in practice, the minimum batch size is around 25,000 barrels (Office of Competition, 1980). Thus, a refinery planning to ship product must maintain tankage for the given product so it can accumulate a sufficiently large batch. (The ability to move product as part of a common stream operation—where several companies' shipments of the same or similar quality product are mixed together in one batch—can lower the minimum shipment volume required for each firm.)

Bulk Terminals

Whether products are transported from the refinery to their destination by pipeline, tanker, or barge, they are usually delivered to some central distribution point, or bulk terminal. Bulk terminals act as warehouses for the petroleum industry, supplying the secondary distribution system and also some large utility and industrial consumers directly.

Buik terminals hold stocks for all the reasons a company would hold inventory of any product. Most important are the transaction uses of stocks—to accommodate short-term or seasonal fluctuations in consumer demand while maintaining a steady production level, in the petroleum industry, the big peaks in product demand are for distillate fuel in the winter and motor gasoline in the summer. During off-season periods, bulk terminals accumulate stocks to be used in peak

²A bulk terminal is defined in EIA reporting systems as a nonconsumer facility used for storage and/or marketing of petroleum products that has total storage capacity of 50,000 barrels or more, or receives petroleum products by barge, tanker, or pipeline.

season. Additional storage supports the operating requirements of the terminal-product is tied up in tank bottoms and is used to maintain pipeline fill.

Crude Oil Storage Trends

Recent changes in storage capacity associated with various locations within the primary distribution system are summarized in Table 1. In addition, capacity estimates based on Federal data sources for end-ofyear 1977 and 1983 are compared with National Petroleum Council estimates for September 1978 and March 1983. In 1977—the most recent year for which comprehensive Federal data on crude oil and refined product storage capacity are available-domestic capacity to store crude oil was estimated to be nearly 474 million barrels. This estimate represents an aggregation of data from several sources, identified in the footnotes to Table 1.

Based on EIA and Census data, total end-of-1983 crude oil storage capacity is estimated to have grown to 508 million barrels. National capacity to store crude oil has been further augmented by the development of the Strategic Petroleum Reserve, which contained only 7.5 million barrels of crude oil at the end of 1977 and now stands at over 400 millon barrels.

In comparison, the National Petroleum Council estimates of total capacity to store crude oil were higher than the estimates based on public sources in both years, by 80 to 90 million barrels.3 The NPC estimates, however, reflect the same growth in storage capacity between 1978 and 1983. For consistency with the estimates from the public sources, NPC data shown on Table 1 reflect the summation of NPC estimates of shell capacity—including tank tops and safety allowances—

and unavailable storage outside tankage (e.g., pipeline fill). Not counted in the EIA/Census numbers, the NPC estimates include capacity at crude oil bulk terminals.

While the level of crude oil inventories changed little between 1977 and 1983, capacity estimates based on public sources indicate that storage capacity utilization (inventories as a percent of capacity) decreased over this period, from 72 percent to 68 percent. Only storage capacity in pipelines4 and tank farms declined over these years, as movements of crude oil to the Nation's inland refinerles fell off after crude oil decontrol in early 1981. At that time the operations of many smaller, independent refiners in the central United States had been adversely affected by the end of petroleum allocations and the loss of benefits from the Small Refiner Blas of the Entitlements Program. Also, the 1981-1983 economic recession fell especially hard on the manufacturing

The basis for the large discrepancy between the EIA/Census and NPC estimates of capacity is not entirely clear. The NPC estimates reflect small additional volumes of crude oil and product in process at refineries and in transit (other than North Alaskan oil shipments and pipeline fill) as well as idle storage capacity. Also, the NPC crude oil capacity estimates include oil stored in bulk terminals, and Census estimates do not. A rigorous comparison of EIA/Census and NPC estimates by company or location of storage would be required to identify further reasons for the observed differences. However, the possibility of some double counting by joint owners of storage capacity in the NPC sample cannot be totally discounted. There is also a possibility that Census may have underestimated storage capacity because of the manner in which respondents select themselves into Standard Industrial Classification (SIC) categories.

4Total storage capacity in pipelines may be approximated as the sum of pipeline fill, or what is in the pipeline at a given time, plus the capacity of tank farms along the system.

Table 1. Crude Oil Storage Capacity and Inventories, 1977/1978 and 1983 (Excluding SPR)

NPC Estimate of Total System Capacity	1977/1978	1983
(EXCI. SPH)		
Census/EIA Capacity Data (Excl. SPR)	553.9	601.5
Lease Site		20110
Lease Site Pipelines & Tank Farmsd	67.2b	·
Alaskan Oil in Transit	219.9	75.1¢ 193.7
Refineries' Total Private Capacity	е	25.0
Total Private Capacityotal Private Stocks	186.6	214.2
otal Private Stocks (Excl. SPR)	473.7	508.0
(Excl. SPR)9	340.2	
aNational Petroleum Council. Petroleum Storage and Transportation Capacitic	040,2	343,8

aNational Petroleum Council. Petroleum Storage and Transportation Capacities, 1979 (estimate of capacity as of 9/30/78). Petroleum Inventories and Storage Capacity, 1984 (estimate of capacity as of 3/31/83).

bBureau of the Census, "Oll and Gas Field Operations," 1977 Census of Mineral Industries, December 1980.

eEstimate from 1983 crude oil and lease condensate production as reported by EIA (see footnote 'g'), based on 1977 Census capacity/production ratio.

dTotal stocks at pipelines and tank farms at end of year (including pipeline fill). 1977 Petroleum Statement, Annual, Energy Data Report, DOE/EIA-0108/77 and Petroleum Supply Annual, 1983, DOE/EIA-0340(83)/1.

Capacity at refinerles as of first-of-year, 1978 and 1984. Petroleum Refinerles In the United States and Puerto Rico, 1978, Energy Data Report, and Petroleum Supply Annual, 1983 DOE/EIA-0340(83)-1.

Sinventories at end of year. Petroleum Refineries in the United States and Puerto Rico, 1978, Energy Data Report, and Petroleum Supply Annual, 1983, DOE/EIA-0340(83)/1.

Note: Capacity reported here for refineries refers to shell capacity. NPC estimates reflect shell capacity of tankage (including tank tops and idle capacity) plus unavailable inventory outside tankage (e.g. pipeline fill).

Table 2. Primary Storage Capacity and Inventories for Major Petroleum Products, 1977/1978 and 1983 (Million Barrels)

	Motor Gasoline	Jet Fuel	Middle Distillates	Residual Fuel Oil	Total
	1977/1	978			
NPC Estimate of Total System Capacitya Census/EIA Capacity Data	496.8	91.2	351.5	156.3	1,095.9
Refinerlesb	174.6	31.0	118.6	71.4	395.6
Pipellnes & Tank Farmsc	52.7	8.1	33.2	_	94.0
Petroleum Bulk Terminaisd	163.2	19.0	162.7	80.0	424.9
Total Capacity	390.5	58.1	314,5	151.4	914.5
Total Primary Inventoriese	257.6	34.5	250.3	90.0	632.4
	198	83	S-1		
NPC Estimate of Total System Capacitya Census/EiA Capacity Data	470.6	75.2	313.8	147.2	1,006.8
Refinerlesb	197.6	36.6	113.2	62.0	409.4
Pipellnes & Tank Farmsc	51.1	11.5	27.5	_	90.1
Petroleum Bulk Terminalsd	144.1	21,1	83.4	46.1	294.7
Total Capacity	392.8	69.2	224.1	108.1	794.2
Total Primary inventorlese	222.4	38.6	140.3	48.5	449.8

aNational Petroleum Council. Petroleum Storage and Transportation Capacities, 1979 (estimate of capacity as of 3/31/78). Petroleum Inventories and Storage Capacity, 1984 (estimate of capacity as of 3/31/83). The 1978 NPC jet fuel estimate Includes kerosene and kerosene-type jet fuel; the 1983 estimate represents kerosene-type jet fuel only. The 1978 motor gasoline estimate includes aviation gasoline; the 1983 estimate includes motor gasoline only. Total may not equal sum of components due to independent rounding.

ing.

bCapacity at refineries as of first-of-year, 1978 and 1984. Petroleum Refineries in the United States and Puerto Rico, 1978, Energy Data Report, and Petroleum Supply Annual, 1983, DOE/EIA-0340(83)/1.

cTotal stocks at pipelines and tank farms at end of year (including pipeline fill). 1977 Petroleum Statement, Annual, Energy Data Report, DOE/EIA-0108/77, and Petroleum Supply Annual, 1983, DOE/EIA-0340(83)/1.

dBureau of the Census, "Petroleum Bulk Stations and Terminals," 1977 Census of Wholesale Trade, March 1981. The 1983 estimates are derived from 1983 petroleum product inventories as reported by EIA (see footnote 'e'), based on ratio of 1977 Census capacity to end-of-1977 EIA inventories.

elnventories at end of year. Petroleum Refineries in the United States and Puerto Rico, 1978, Energy Data Report, and Petroleum Supply Annual, 1983, DOE/EIA-0340(83)/1.

Note: Capacity reported here for both refineries and bulk terminals refers to shell capacity. NPC estimates represent shell capacity (including tank tops and idle capacity) plus unavailable inventory outside tankage (e.g. pipeline fill).

Industries of the Midwest, weakening the demand for refinery output in that region, and many workers (and energy consumers) moved to the Sun Belt States. A recent indication of the reduced profitability of moving oil to the Midwest is provided by the scheduled conversion of the Seaway and Texoma crude oil pipelines (together accounting for 560,000 barrels per day of throughput capacity) to natural gas (*PIW*, 1984).

Increased crude oil storage capacity at refineries between 1977 and 1983 more than offset the decline at pipelines. Some of this 1983 capacity was associated with idle refineries, which may eventually be shut down, but the data clearly indicate an increased emphasis on storage at refineries. Inventories of crude oil had increased in response to the 1979 and 1980 world oil price increases and associated uncertainty in international markets, and the 1983 capacity still reflects this structural change in industry inventory management.

Refined Product Storage Trends

Total primary storage capacity for major refined products maintained at refinerles, in pipeline networks, and

at bulk terminals has declined since 1977 (see Table 2). A comparison of storage estimates derived from Federal data sources for end-of-year 1977 and 1983 with National Petroleum Council estimates for March 1978 and 1983 shows an overall capacity decline of between 120 million barreis (based on estimates from public sources) and 90 million barrels (based on NPC estimates).

Most of the decline was associated with middle distillates and residual fuel oil. Trends in both storage capacity and inventories for these products, as well as for motor gasoline and jet fuel, closely paralleled trends in product supplied over the same period, indicating demand for storage to support transactions has been the most important factor explaining observed capacity levels. This was especially true for residual fuel oil, but lower capacity requirements for middle distillates probably also reflect changes in inventory management that have been responsible for the relatively small seasonal buildups of heating oil inventories in recent years.

⁵See Footnote 3.

Changes in total product storage capacity can also be associated with changes in capacity at various points In the distribution system. For example, most of the decline in total product capacity was at bulk terminals, while capacity at refineries increased slightly. This shift of capacity towards refinery locations is consistent with industry efforts in recent years to pare costs and enhance their flexibility in responding to changing market conditions. Increased crude oil storage capacity relative to that for refined products is another part of this move to increase marketing flexibility.

Finally, the data in Table 2 provide some indication of how the secondary distribution system and tertlary

storage capabilities influence primary storage practices. In both 1977 and 1983 the ratio of inventories to primary storage capacity is higher for gasoline and middie distillates than it is for the other two products. Contributing to this higher relative primary storage requirement is the fact that gasoline and distillates are distributed through extensive secondary networks to geographically dispersed consumers in the residential and transportation sectors. More product must be held in the primary system to support this network. Further, the tertiary storage capabilities of these consumers are typically restricted, especially in comparison with those of let fuel and residual fuel oil consumers.

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U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves

In its seventh annual report on U.S. crude oil, natural gas, and natural gas liquids reserves, the Energy information Administration estimated U.S. proved reserves' to be 27.7 billion barrels of crude oil, 200 trillion cubic feet of dry natural gas (excluding gas in underground storage) and 7.9 billion barrels of natural gas liquids (Including lease condensate) as of December 31, 1983. (see Table 1).

The estimate of U.S. oil and gas proved reserves remained stable in 1983, as a significant increase in the estimate of proved reserves of natural gas liquids offset slight declines in crude oil and dry natural gas. Accord-Ing to the advance summary released in September 1984 of the Energy Information Administration's U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 1983 Annual Report, a 1.6 percent increase in total U.S. liquid hydrocarbon estimates of proved reserves (crude oil plus natural gas liquids) was attributed

to an increase of over 9 percent in the estimate of natural gas liquids proved reserves that outwelghed a decline of less than 1 percent in the estimate of crude oll proved reserves. Both the relative stability of the estlmate of crude oil reserves and the increase in the estlmate of natural gas ilquids reserves were largely the resuit of increases in net reserve adjustments and revislons.

Continuing the decline trend that began in 1971, the estimate of proved crude oil reserves slipped 123 milllon barrels (0.4 percent) last year-the smallest drop since 1980. Large positive net revisions (1.5 biilion barrels) and net adjustments (462 million barrels) accounted for the stable estimate of crude oil proved

Proved reserves are those which geological and engineering data demonstrate with reasonable certainty to be recoverable in future years from known reservoirs under existing economic and operating conditions.

Table 1. Estimated Total U.S. Proved Reserves of Crude Oil, Natural Gas Liquids, and Natural Gas

	Proved Reserves	Net Revisions			Proved Reserves	
	at Start of Year	and Adjustments₄	Total Discoverles ^b	Production ^o	at End of Year⁴	Percent Change
		Crud	le Oil (Million Bai	rels)		
1979	31,355	774	636	2,955	29,810	- 4.9
1980	29,810	2,108	862	2,975	29,805	(s)
1981	29,805	1,409	1,161	2,949	29,426	- 1.3
1982	29,426	351	1,031	2,950	27,858	- 5.3
1983	27,858	1,973	924	3,020	27,735	- 0.4
		Natural Ga	as Liquids (Millio	n Barrels)•		
1979	6,772	15	555	727	6,615	- 2.3
1980	6,615	257	587	731	6,728	+ 1.7
1981	6,728	317	764	741	7,068	+ 5.1
1982	7,068	278	596	721	7,221	+ 2.2
1983	7,221	915	490	725	7,901	+ 9.4
***************************************		Natural	Gas (Billion Cub	ic Feet) ^f		
1979	208,033	- 2,483	14,704	19,257	200,997	- 3.4
1980	200,997	2,250	14,473	18,699	199,021	1.0 .
1981	199,021	4,226	17,220	18,737	201,730	+ 1.4
1982	201,730	2,833	14,455	17,506	201,512	- 0.1
1983	201,512	3,075	11,448	15,788	200,247	- 0,6

Algebraic sum of revision increases, revision decreases, and net of corrections and adjustments.

bAigebraic sum of extensions to old reservoirs, new field discoveries, and new reservoirs discovered in old fields.

These estimates of U.S. production for crude oil, natural gas, and natural gas liquids are based on data reported to EIA on Form EIA-23, "Annual Survey of Oil and Gas Reserves," and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production." These figures differ from official EIA U.S. production data for crude oil, natural gas, and natural gas liquids published in the Petroleum Supply Annual and Natural Gas Annual.

dProved reserves at end of year equal proved reserves at start of year, plus net revisions (including corrections and adjustments), pius totai discoveries, minus production.

elncluding lease condensate.

fDry natural gas excluding gas in underground storage.

⁽s) = Less than 0.05 percent. Source: Energy Information Administration, Advance Summary of the U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves 1983 Annual Report, September, 1984.

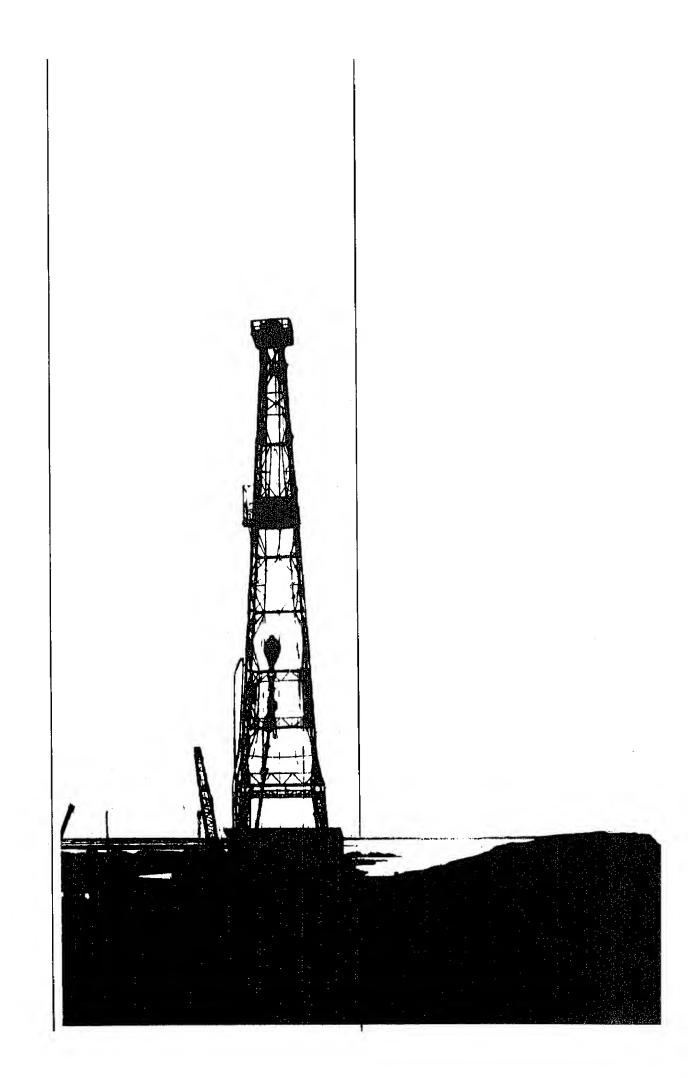
reserves, as total discoveries declined to 924 million barrels. Extensions to old reservoirs accounted for more than two-thirds of the discoveries. New reservoir discoveries in old fields accounted for one-fifth and new field discoveries accounted for the remainder.

The estimate of dry natural gas proved reserves fell 1.3 trillion cubic feet (0.6 percent) in 1983, but remained 0.6 percent above the low reported for 1980. Net revisions and adjustments to estimations of proved reserves continued to be positive; however, production, new discoveries and extensions to old reservoirs declined. About three-fifths of the 11 trillion cubic feet discovered in 1983 were from extensions to old reservoirs. New reservoir and new field discoveries accounted for about one-fourth and one-seventh, respectively.

The estimate of proved reserves of natural gas liquids increased 680 million barrels (9.4 percent) to 7.9 billion

barrels in 1983. This was the fourth consecutive annual increase in the estimate of proved reserves and resulted primarily from a positive net increase in revisions (66 million barrels) and a large increase in net adjustments (849 million barrels) that compensated for a drop in total discoveries (106 million barrels) during the year.

The estimates of proved reserves are based upon an analysis of data filed by 3,054 operators of oil and gas wells and by operators of 1,011 natural gas processing plants. The crude oil and natural gas proved reserves estimates are associated with sampling errors of 1 percent at a 95-percent confidence level. The full report includes additional data regarding estimates of proved reserves from nonproducing reservoirs and commitment status of proved natural gas reserves collected from large and intermediate size operators. It will be released by the Energy Information Administration in November 1984.



		F	field Producti	on	Stock W	ithdrawai ²		Ending Stocks ³
		Total Domestic ⁴	Crude Oll	Natural Gas Plant Production	Crude Oll ⁵	Petroleum Products	Petroleum Products Supplied	Crude Oli ⁵ and Petroleum Products
				Thousand Ba	rrels per Day			Million Barrels
1973	Average	10,975	9,208	1,738	11	-146	17,308	1,008
1974 1975	Average	10,498	8,774	1,688	-62	-117	16,653	8 1,074
1976	Average	10,045	8,375	1,633	⁸ -17	⁸ ~145	16,322	1,133
	Average	9,774	8,132	1,603	-39	96	17,461	1,112
1977	Average	9,913	8,245	1,618	-170	-378	18,431	1,312
1978	Average	10,328	8,707	1,567	-78	172	18,847	1,278
1979	Average	10,179	8,552	1,584	-148	-25	18,513	1,341
1980	Average	10,214	8, 597	1,573	-98	-42	17,056	^B 1,392
1981	Average	10,230	8,572	1,609	⁸ ~290	8 130	16,058	1,484
1000	In account	40.400				,,,,	10,000	1,404
	January	10,128	8,509	1,578	-401	1,298	16,124	1,456
	February	10,312	8,702	1,563	-242	1,230	16,001	1,428
-	March	10,284	8,667	1,572	121	1,047	15,560	
	April	10,188	8,591	1,542	-37	1,583	16,046	1,392
	May	10,244	8,683	1,518	29	-66	14,847	1,346
	lune	10,212	8,646	1,511	40	-489	14,998	1,347
	July	10,229	8,658	1,513	-147	-926		1,360
	August	10,215	8,634	1,524	-440	-44	14,821	1,393
	September	10,279	8,701	1,518	263	-447	14,839 15,022	1,408
	October	10,299	8,701	1,530	-548	-47		1,414
	lovember	10,359	8,697	1,609	-398	-361	14,859	1,432
Đ	ecember)	10,276	8,598	1,628	128	688	15,009	1,455
	Average	10,252	8,649	1,550	-136	283	15,487 15,296	⁸ 1,430
	anuary	10,331	8,697	1,580	8 -499	8 772	14700	
	ebruary	10,388	8,758	1,575	-320	1,113	14,722	1,452
	larch	10,279	8,700	1,541	83		14,792	1,430
	pril	10,322	8,776	1,506	-402	1,810 308	15,541	1,372
	lay	10,190	8,631	1,493	-402 -15		14,692	1,374
	une	10,2 61	8,667	1,523	-122	-602	14,505	1,394
Jt	uly	10,228	8,636	1,539	233	-276	15,289	1,405
A	ugust	10,284	8,679	1,562	-796	-909	15,019	1,426
S	eptember	10,447	8,784	1,602	-796 -239	-271	15,480	1,460
0	ctober	10,434	8,771	1,604	-239 -274	-621	15,506	1,485
N	ovember	10,461	8,770	1,641		-442	14,962	1,508
D	ecember	9,983	8,397	1,544	114	-182	15,500	`1,510
	Average	10,299	8,688	1,559	-329 -214	2,133 234	16,726	1,454
984 Ja	ND) IAD	10.00-			- • •	204	15,231	
		10,282	8,659	1,585	-342	1,085	16,726	4 400
	bruary arch	10,410	8,726	1,629	186	-1,353	15,389	1,430
		10,354	8,718	1,588	-2	643	16,017	1,464
Αþ		10,347	8,688	1,616	-565	-128	15,484	1,444
Ma		10,415	8,752	1,610	-616	-422	15,464	1,465
Ju		10,398	8,743	1,612	-95	-77		1,497
Jul		10,487	8,769	1,649	-184	-184	15,687	1,502
	gust*	10,476	8,781	1,663	R 250	R185	15,547	1,514
	ptember**	NA	8,759	NA	326	-203	R16,130	R1,500
, p	\verage	NA	8,733	NA	-118	-203 -40	<i>15,883</i> 15,830	1,508

Includes lease condensate,

Includes lease condensate.

A negative number indicates an increase in stocks and a positive number indicates a decrease.

Stocks are totals as of end of period.

Includes crude oil, natural gas plant production, other hydrocarbons, and alcohol.

Includes stocks located in the Strategic Petroleum Reserve.

Includes crude oil for storage in the Strategic Petroleum Reserve.

Net imports equal imports minus Exports.

In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.

Crude Oil¹ and Petroleum Products Overview (continued)

			Imports			Exports		
		Total .	Crude Oil ⁶	Petroleum Products	Total	Crude Oil	Petroleum Products	Net ⁷ Imports
	-			Thous	and Barrels pe	r Day	<u></u>	
973	Average	6,256	3,244	3,012	231	2	229	6,025
974	Average	6,112	3,477	2,635	221	3	218	5,892
		6,056	4,105	1,951	209	6	204	5,846
975	Average	7,313	5,287	2,026	223	8	215	7,090
976	Average			2,193	243	50	193	8,565
977	Average	8,807	6,615			158	204	8,002
978	Average	8,363	6,356	2,008	362			7,984
979	Average	8,456	6,519	1,937	472	235	237	
980	Average	6,909	5,26 3	1,646	544	287	258	6,365
981	Average	5,996	4,396	1,599	595	228	367	5,401
982	January	5,332	3,693	1,639	829	238	591	4,503
	February	4,807	2,990	1,817	804	304	499	4,003
	March	4,484	2,874	1,610	882	321	561	3,602
	April	4,378	2,849	1,529	786	174	611	3,593
	May	4,811	3,309	1,503	803	262	542	4,008
	June	5,327	3,836	1,491	703	94	609	4,624
	July	5,890	4,248	1,642	741	229	512	5,149
			3,851	1,392	858	304	554	4,386
	August	5,244		1,032	791	184	606	4,624
	September	5,414	3,636	1,778			662	4,374
	October	5,306	3,670	1,636	932	270		
	November	5,744	3,862	1,882	786	262	524	4,958
	December	4,606	3,000	1,605	860	193	667	3,746
	Average	5,113	3,488	1,625	815	236	579	4,298
983	January	4,438	2,964	1,474	973	117	856	3,464
	February	3,726	2,267	. 1,459	865	262	603	2,861
	March	3,690	2,290	1,400	801	174	627	2,889
	April	4,727	3,118	1,609	809	88	721	3,918
	May .	5,089	3,360	1,729	848	280	568	4,241
	June	5,326	3,577	1,749	774	144	630	4,552
	July	5,741	3,871	1,870	571	146	426	5,170
	August	6,159	4,227	1,933	663	172	491	5,496
	September	6,129	4,210	1,919	684	177	507	5,445
	October	5,258	3,446	1,812	576	140	436	4,682
	November	5,210	3,337	1,873	679	186	494	4,531
		5,033	3,213	1,820	639	95	544	4,394
	December Average	5,051	3,329	1,722	739	164	576	4,312
004	January	5,347	3,029	2,318	575	153	422	4,772
3 U 4	February	5,643	2,952	2,691	582	185	397	5,081
						236	605	4,413
	March	5,253	3,455	1,798	840			
	April	5,319	3,417	1,902	655	172	483	4,664
	May	5,916	3,927	1,989	766	219	548	5,150
	June	5,304	3,410	1,893	864	222	642	4,440
	July	5,387	3,646	1,741	536	108	428	4,851
	August*	R 5,036	R 3,244	R1,793	732	190	542 -	4,305
	September**	4,959	3,170	1,789	NA	NA	NA	NA
	Average	5,351	3,364	1,987	NA	NA	NA	NA

Source: See the last page of this section.

Footnotes continued.

* See Explanatory Note 9.1.

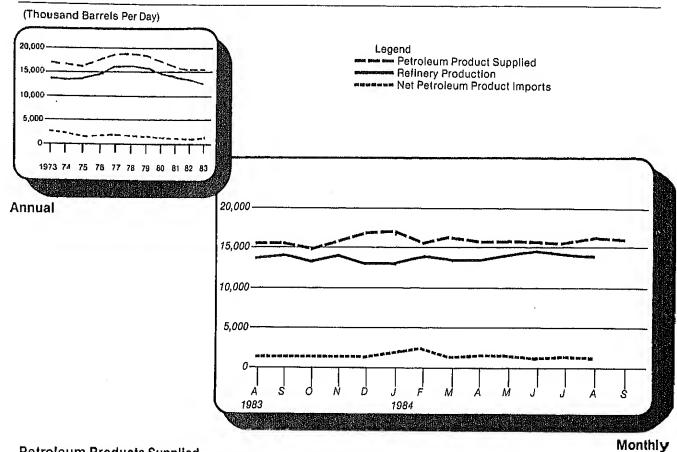
** Italics denote estimates based upon preliminary data. See Explanatory Note 8.

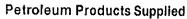
R = Revised data. NA = Not available.

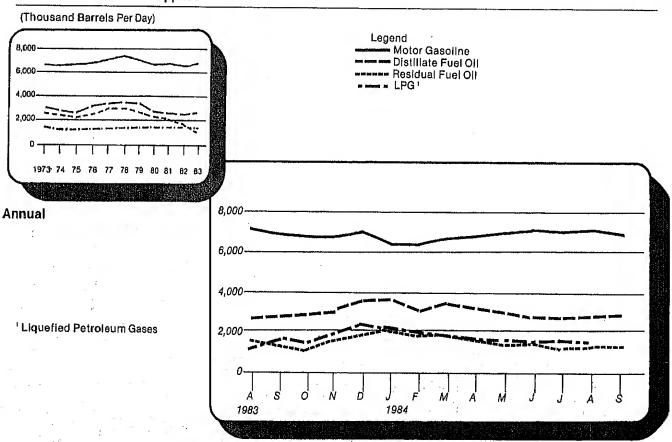
Note: Geographic coverage is the 50 United States and the District of Columbia.

Total may not equal sum of components due to independent rounding.



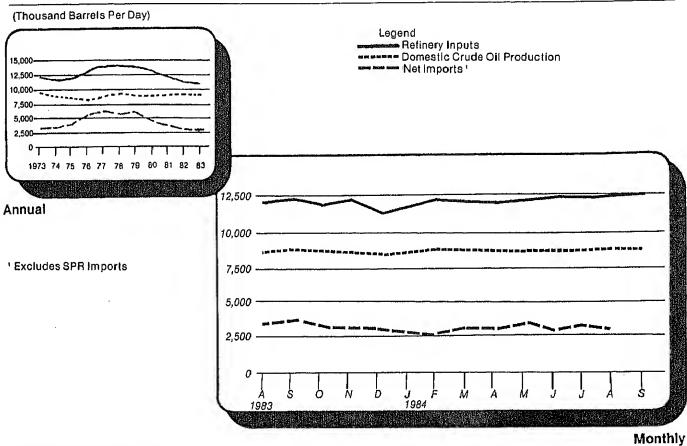




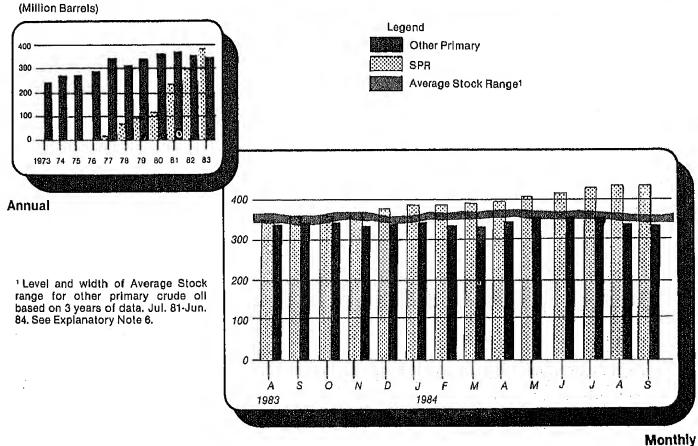


Monthly

Crude Oil Supply and Disposition



Crude Oil Ending Stocks



					Su	ipply			
		Fleid Pro	duction		Imports		Stock Wi	thdrawal ³	
		Total Domestic	Alaskan	Total	SPR4	Other	SPR4	Other	Unac- counted for Crude Oll
				7	housand B	arreis per Da	у	1	
1973		9,208	198	3,244		3,244		11	3
1974		8,774	193	3,477		3,477		-62	-25
1975		8,375	191	4,105		4,105		-17	17
1976	Average	8,132	173	5,287		5,287		-39	77
1977	Average	8,245	464	6,615	21	6,594	-20	-150	
1978		8,707	1,229	6,356	162				-6
1979	Average	8,552	1,401			6,195	-163	84	-57
1980	Average	8,597	1,617	6,519	67	6,452	-67	-81	-11
1981	Average			5,263	44	5,219	-45	-52	34
	_	8,572	1,609	4,396	256	4,141	-336	⁸ 46	83
1962	January	8,509	1,705	3,693	170	3,523	-159	-242	101
	February	8,702	1,707	2,990	159	2,830	-213	-29	156
	March	8,667	1,696	2,874	185	2,689	-235	357	2
	April	8,591	1,691	2,849	190	2,659	-233	196	231
	May	8,683	1,707	3,309	204	3,105	-176	205	111
	June	8,646	1,665	3,836	105	3,732	-105		
	July	8,658	1,710	4,248	97	4,150	-97	144	193
	August	8,634	1,697	3,851	208	•		-50	-20
	September	8,701	1,705	3,636		3,643	-208	-232	189
	October	8,701	1,706		139	3,497	-143	406	-210
	November	8,697	1,676	3,670	216	3,454	-216	-332	249
	December	8,598		3,862	180	3,683	-179	-219	-124
	Average		1,682	3,000	124	2,877	-125	252	35
	-	8,649	1,696	3,488	165	3,323	-174	38	71
1983	January	8,697	1,732	2,964	219	2,746	-219	⁶ -280	170
	February	8,758	1,717	2,267	197	2,070	-197	-123	170
	March	8,700	1,732	2,290	201	2,089	-184	267	262
	April	8,776	1,721	3,118	205	2,913	-197		31
	May	8,631	1,662	3,360	289			-205	.98
	June	8,667	1,687	3,577	190	3,071	-293	278	169
	July	8,636	1,715	3,871	274	3,387	-188	.66	370
	August	8,679	1,697	4,227	350	3,597	-264	497	-167
	September	8,784	1,738	4,210		3,876	-358	-438	281
1	October	8,771	1,733		309	3,901	-307	68	-30
	November	8,770	1,720	3,446	202	3,244	-201	-73	44
	December	8,397		3,337	171	3,166	-135	250	34
•	Average	•	1,711	3,213	193	3,020	-252	-78	117
	_	8,688	1,714	3,329	234	3,096	-234	20	114
984	January	8,659	1,741	3,029	200	2,829	-173	460	444.4
	ebruary	8,726	1,740	2,952	85	2,868		-169	451
	March	8,718	1,740	3,455	148		-96	282	487
	∤pril	8,688	1,725	3,417	170	3,307	-147	145	66
	May	8,752	1,793	3,927		3,247	~170	-396	590
J	lune	8,743	1,792		246	3,681	-245	-371	463
	iuty	8,769	1,769	3,410	309	3,101	-309	214	490
	lugust*	8,781		3,646	329	3,317	~328	144	25
	September**	8,759	1,725	R3,244	R180	R 3,064	R-179	R 429	383
	Average		1,725	3,170	65	3,105	-65	391	ŇA
		8,733	1,750	3,364	193	3,171	-191	73	NA

<sup>Includes lease condensate.
Stocks are totals as of end of period.
A negative number Indicates an increase in stocks and a positive number Indicates a decrease.
Strategic Petroleum Reserve.
Beginning in January 1983, crude oil used directly as fuel is shown as product supplied.
Stocks of Alaskan crude oil in transit were included beginning in January 1981. Stock withdrawals are calculated using new basis stock levels. See Explanatory Notes 10 and 11.
Footnotes continued on following page.</sup>

Crude Oil¹ Supply and Disposition (continued)

		Supply		Dispo	sition		En	ding Stock	32
		Crude Used Directly ⁵	Crude Losses	Refinery Inputs	Exports	Products Supplied ⁵	Total Crude Oil	SPR4	Other Primary
			Thous	and Barrels p	er Day		М	illion Barrei	3
1973		-19	13	12,431	2	NA	242		242
1974		-15	13	12,133	3	NA	265		265
1975	Average	-17	13	12,442	6	NA	271		271
1976	Average	-18	15	13,416	8	NA	285		285
1977	Average	-14	16	14,602	50	NA	348	7	340
1978	Average	-14	16	14,739	158	NA	376	67	309
1979	Average	-13	16	14,648	235	NA	430	91	339
1980		-13	15	13,481	287	NA	6 466	108	6 358
1981	Average	-58	5	12,470	228	NA	594	230	363
1982	January	-63	3	11,599	238	NA	606	235	371
	February	-64	2	11,236	304	NA	613	241	372
	March	-63	5	11,276	321	NA	609	249	361
	April	-65	3	11,392	174	NA	610	256	355
	May	-62	3	11,806	262	NA	609	261	348
	June	-60	7	12,494	94	NA	608	264	344
	July	-60	3	12,446	229	NA	613	267	346
	August	-57	2	11,871	304	NA	626	274	353
	September	-56	4	12,146	184	NA	619	278	341
	October	-51	ż	11,749	270	NA	636	285	351
	November	-51	1	11,724	262	NA	648	290	358
	December	-53	i	11,514	193	NA	6 644	294	350
	Average	-59	3	11,774	236	NA NA	- 044	254	350
1983	January	NA	2	11,143	117	71	660	301	360
	February -	NA	3	10,633	262	71	669	306	363
	March	NA	2	10,859	174	70	667	312	355
	April	NA	2	11,433	88	68	679	318	361
	May	NA	1	11,800	280	63	679	327	353
	June	NA	(^S)	12,284	144	64	683	332	351
	July	NA	` 2	12,360	145	65	676	341	335
	August	NA NA	1	12,152	172	64	700	352	349
	September	NA NA	i	12,482	177	66	708	361	347
	October	NA	1	11,782	140	63	708 716	367	347
	November	NA NA	2			64			
	December	NA NA		12,004	186		713	371	341
	Average	NA NA	1 2	11,234 1 1,68 5	95 164	67 66	723	379	344
1984	January	NA	1	11,579	153	64	733	384	348
	February	NA	i	12,100	185	65	727	387	340
	March	NA	2	11,936	236	62	728	392	336
	April	NA	(^S)	11,893	172	64	744	397	348
	May	NA NA	2	12,243	219	62	764	404	359
	June	NA NA	- 2	12,243	222	61	766	414	359
	July .	NA NA	1		108	60	700		
			-	12,087				424	348
	August*	NA NA	1	R 12,403	190	63	R 764	429	R 935
	September**	NA	NA	12,475	NA	NA	762	432	331
	Average	NA	NA	12,108	NA	NA			

Footnotes continued.

* See Explanatory Note 9.2.

** Italics denote estimates based upon preliminary data. See Explanatory Note 8.

R = Revised data. NA = Not available. (S) = Less than 500 barrels per day.

Note: Geographic coverage is the 50 United States and the District of Columbia.

Total may not equal sum of components due to independent rounding.

Source: See the last page of this section.

						Imports fro	m OPEC	Sources ¹				
		Algeria	Libya	Saudi Arabia	United Arab Emirates	Indo- nesia	Iran	Nigeria	Vene-	Other OPEC ²	Total OPEC	Total Arab OPEC ³
						Thousand	Barrels	per Day	***************************************		•	
1973	Average	136	164	486	71	213	223	459	1,135	106	2,993	915
1974	Average	190	4	461	74	300	469	713	979	88	3,280	752
1975	Average	282	232	715	117	390	280	762	702	122	3,601	1,383
1976	Average	432	453	1,230	254	539	298	1,025	700	134	5,066	2,424
1977	Average	559	723	1,380	335	541	535	1,143	690	287	6,193	3,185
1978	Average	649	654	1,144	385	573	555	919	645	226	5,751	2,963
1979	Average	636	658	1,356	281	420	304	1,080	690	212	5,637	3,056
1980	Average	488	554	1,261	172	348	9	857	481	130	4,300	2,551
1981	Average	311	319	1,129	81	366	0	620	406	90	3,323	1,848
	anuary	254	161	877	111	289	0	663	376	128	2,859	1,403
	ebruary	139	92	693	89	244	0	584	355	102	2,297	1.054
	larch	91	37	555	155	200	0	522	399	91	2.051	860
	pril	85	0	511	122	215	0	427	426	85	1,871	740
	lay	179	0	601	116	236	0	222	422	54	1,830	897
	nue	115	0	593	94	215	72	537	361	110	2,096	820
	ıly	159	0	660	108	327	69	910	356	95	2,685	965
	ugust	181	0	489	133	271	27	574	299	133	2,107	818
	eptember	179	0	432	57	191	21	477	518	69	1,943	677
	ctober	249	7	494	61	242	108	313	504	106	2,084	810
	ovember	247	14	489	47	283	34	479	528	115	2,235	797
	ecember	155	0	237	12	265	88	462	399	73	1,690	421
•	Average	170	26	552	92	248	35	514	412	97	2,146	854
19 83 Ja		207	0	282	47	255	43	186	337	54	1,412	537
	ebruary	115	0	214	9	217	0	92	393	28	1,068	338
	arch	63	0	103	0	138	Ō	121	440	201	1,066	183
	oril	227	0	162	(s)	210	Ō	186	523	125	1,432	389
M		286	0	122	12	405	37	385	455	69	1,771	420
	ne	300	0	188	40	466	38	467	335	138	1,973	528
Ju		283	0	182	64	464	112	525	434	187	2,251	606
	igust	378	0	448	52	433	213	464	511	230	2,728	903
	ptember	423	0	587	21	501	86	324	432	221	2,595	1,084
	ctober	261	0 -	638	16	368	12	307	337	169	2,108	938
	ovember	184	0	545	56	302	21	215	452	135	1,910	807
_	cember	144	0	569	45	294	9	329	415	163	1,969	826
,	Average	240	0	337	30	338	48	302	422	144	1,862	632
984 Ja		242	0	463	114	278	0	243	547	51	1.020	000
	bruary	348	0	324	33	267	ŏ	244	481	174	1,939	828
	arch	283	0	307	112	284	67	260	354	127	1,871	723
Ap		280	0	320	95	221	o,	288	581	158	1,792	717
Ma		456	0	329	240	480	ő	289	621	242	1,944	734
Ju		284	0	411	46	415	ŏ	243	574	139	2,657	1,131
Jul	•	332	0	429	112	384	ŏ	204	574 535	242	2,112	806
	gust	404	0	438	82	281	ŏ	114	487	242 216	2,237	946
A	verage	329	0	378	105	327	8	235	522	169	2,021 2,074	993 862

Excludes petroleum imported into the United States Indirectly from OPEC countries, primarily from Caribbean and West European areas, as refined petroleum products which were refined from crude oil produced in OPEC countries.
 Includes Ecuador, Gabon, Iraq, Kuwait, and Qatar.
 Includes Algeria, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait, and Qatar.
 Footnotes continued on following page.

Crude Oil and Petroleum Product Imports (continued)

					l	mports fror	n Non-OPE	C Sources	4			
		Baha- mas	Canada	Mexico	Nether- lands Antilles	Trinidad and Tobago	United Kingdom	Puerto Rico	Virgin Islands	Other Non OPEC	Total Non OPEC	Total imports
						Thousa	nd Barrels	per Day		·		
1973	Average	174	1,325	16	585	255	15	99	329	465	3,263	6,256
1974	Average	164	1,070	8	511	251	8	90	391	340	2,832	6,112
1975	Average	152	846	71	332	242	14	90	406	300	2,454	6,056
1976	Average	118	599	87	275	274	31	88	422	353	2,247	7,313
1977	Average	171	517	179	211	289	126	105	466	550	2,614	8,807
1978	Average	160	467	318	229	253	180	94	429	484	2,613	8,363
1979	Average	147	538	439	231	190	202	92	431	548	2,819	8,456
1980	Average	78	455	533	225	176	176	88	388	491	2,609	6,909
1981	Average	74	447	522	197	133	375	62	327	534	2,672	5,996
1982 .	lanuary	58	513	425	179	106	346	62	334	452	2,474	5,332
	ebruary	67	537	476	221	120	181	38	362	508	2,510	4,807
	/arch	43	437	503	189	118	294	62	307	480	2,433	4,484
	April	82	360	476	184	166	247	36	266	690	2,507	4,387
	//ay	77	419	766	152	95	516	47	302	607	2,981	4,811
	lune	32	481	797	148	129	557	58	322	708	3,231	5,327
	luly	64	536	783	158	118	433	38	376	698	3,204	5,890
	lugust	80	443	853	145	106	520	24	317	650	3,137	5,244
	Ragusi September	92	493	897	195	89	631	51	278	746	3,472	5,414
	october	45	459	682	148	109	666	52	262	801	3,222	5,306
		51	553	860	212	90	623	81	334	706	3,508	5,744
	lovember	88	561	689	174	102	438	48	336	480	2,916	4,606
·	December Average	65	482	68 5	175	112	456	50	316	627	2,968	5,113
1003	January	68	534	849	228	73	314	40	299	621	3,026	4,438
	ebruary	92	586	722	183	81	193	50	192	558	2,658	3,726
		86	488	775	187	78	240	43	162	565	2,624	3,690
	/larch	174	454	981	216	85	421	20	183	759	3,295	4,727
	April	135	518	944	153	108	484	42	235	699	3,318	5,089
	Лау				173	120	440	48	262	757	3,353	5,326
	lune	137	586	830 849	173	107	369	37	364	864	3,490	5,741
	luly	69	634	906	190	90	461	40	313	738	3,431	6,159
	August	144	542			82	475	33	307	845	3,534	6,129
	September	148	533	849	261				357	580	3,151	5,258
	October	171	532	771	172	106	414 3 34	48 55	427	801	3,300	5,210
	lovember	148	556	726	144	110				628	3,063	5,033
L	December Average	127 125	604 547	710 826	153 1 89	113 96	429 382	22 40	278 2 82	701	3,189	5,051
004			624	705	277	54	382	53	390	772	3,408	5,347
	lanuary	152			288	54 77	338	58	. 418	1,083	3,772	5,643
	ebruary	142	620	747		93	400	34	247	996	3,460	5,253
	/larch	88	726	707	169 207	93	282	37	257	863	3,375	5,319
	\pril	88	691	859						796	3,259	5,916
	May	31	715	675	192	57	418	38	336	934		5,304
	lune	50	499	732	234	104	318	53	268		3,192	
	luly	14	574	738	99	120	362	27	292	924	3,150	5,387
F	August	57	551	621	205	98	388	34	236	826	3,015	5,036
	Average	77	625	722	208	87	362	42	305	898	3,326	5,399

Footnotes continued.

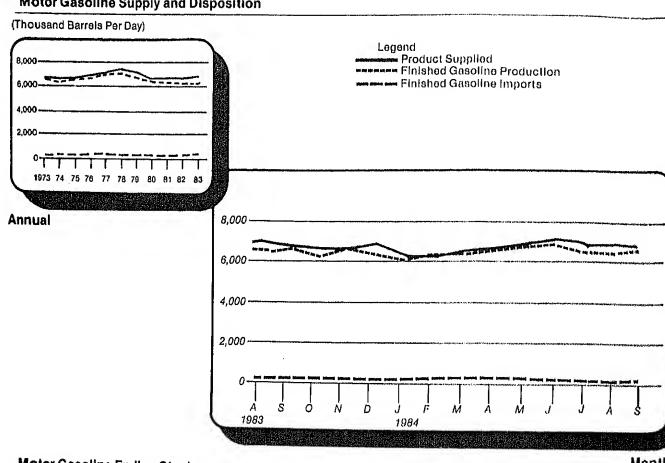
⁴ Includes petroleum imported into the United States indirectly from OPEC countries, primarily from Caribbean and West European areas, as refined petroleum products which were refined from crude oil produced in OPEC countries.

(*) = Less than 500 barrels per day.

Note: Beginning in October 1977, Strategic Petroleum Reserve imports are included.

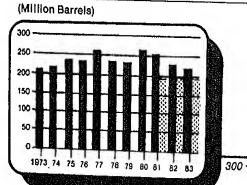
Total may not equal sum of components due to independent rounding. Geographic coverage: The 50 United States and the District of Columbia, Source: See the last page of this section.

Motor Gasoline Supply and Disposition



Motor Gasoline Ending Stocks

Month!



Legend

Total Motor Gasoline¹

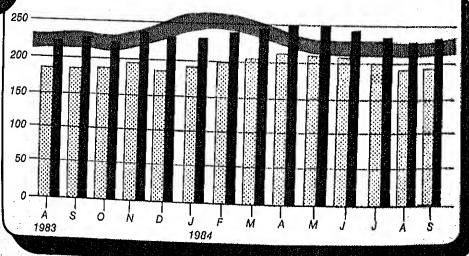
Finished Motor Gasoline

Average Stock Range?

Annual

Includes motor gasoline blending components and finished motor

gasoline, and minimed motor gasoline, 2 Level and width of Average Stock Range for total motor gasoline based on 3 years of data, Jul. 81-Jun. 84. See Explanatory Note 6.



10

Finished Motor Gasoline Supply and Disposition

			Supply			Disp	osition		Ending Stocks ¹	
		Total		Stock		Pi	oducts Suppil	ed	Total	Finished
		Produc- tion	Imports ²	With- drawal ^{2 3}	Exports	Total	Unleaded ⁴	Unleaded	Motor Gasoline ⁵	Motor Gasoline
				Thousand Ba	arrels per Day			Percent of Total	Millon	Barrels
1973	Average	6,535	134	9	4	6,874	NA	NA	209	
1974	Average	6,360	204	-24	2	6,537	NA	NA	⁶ 218	
1975	Average	6,520	184	⁶ -28	2	6,675	NA	NA	235	
1976	Average	6,841	131	10	3	6,978	NA	NA	231	
1977	Average	7,033	217	-72	2	7,177	1,976	27.5	258	
1978	Average	7,169	190	54	1	7,412	2,521	34.0	238	
1979	Average	6,852	181	2	(⁹)	7,034	2,798	39.8	237 ⁶ 261	
1980 1981	Average Average ⁷	6,506 6,405	140 157	-66 ⁶ 28	1 2	6,579 6,588	3,067 3,264	46.6 49.5	253	
1982	January	6,167	128	-316	18	5,961	3,067	51.5	261	213
	February	5,899	133	172	8	6,196	3,210	51.8	257	208
	March	5,994	183	334	44	6,466	3,358	51.9	247	198
	April	6,095	185	650	33	6,897	3,495	50.7	221	179
	May	6,319	182	177	23	6,655	3,415	51.3	214	173
	June	6,754	230	-134	14	6,835	3,565	52.2	219	177
	July	6,768	225	-178	24	6,790	3,577	52,7	226	183
	August	6,419	291	~81	16	6,614	3,526	53.3	227	185
	September	6,527	223	-198	22	6,531	3,404	52.1	234	191
	October	6,262	185	-42	15	6,391	3,351	52.4	234	192
	November	6,273	211	101	11	6,574	3,451	52.5	230	189
	December	6,542	178	-165	7	6,549	3,485	53.2	⁶ 235	6 194
	Average	6,338	197	25	20	6,539	3,409	52.1		
1983		6,065	153	⁶ –167	(8)	6,051	3,364	55.6	250	207
	February	5,848	128	_24	(e)	6,000	3,264	54.4	250	207
	March	5,906	186	768	23	6,836	3,622	53.0	223	183
	April	6,201	255	-3	1	6,452	3,492	54.1	221	183
	May	6,397	305	-83	1	6,617	3,558	53.8	223	185
	June	6,655	277	84	22	6,994	3,792	54.2	223	183 190
	July	6,707	302	-225	18	6,765	3,746	55.4 55.0	231 226	185
	August	6,537	250	161	13	6,936	3,836	55.3	229	189
	September October	6,611	279	-149	14	6,727	3,691	54.9 56.3	22 9 227	187
	November	6,188 6,634	330 269	72 -298	2 2	6,588 6,603	3,71.1 3,692	55.9	236	196
	December	6,308	224	339	25	6,846	3,966	57.9	222	186
	Average	6,340	247	45	10	6,622	3,647	55.1	f= fn f=	100
1984	January	6,037	233	-1	1	6,268	3,606	57.5	225	186
	February	6,320	303	-384	2	6,237	3,585	57.5	237	197
	March	6,375	343	-197	9	6,512	3,747	57.5	243	203
	April	6,528	308	-153	(s)	6,682	3,854	57. 7	248	207
	May	6,650	329	-106	(a)	6,873	3,990	58.1	253	211
	June	6,620	272	217	17	7,092	4,210	59.4	245	204
	July	6,481	247	130	9	6,849	4,094	59.8	239	200
	August*	R 6,436	R 243	FI 437	1	R 7,114	4,263	59.9	R 225	R187
	September**	6,573	299	-22	NA	6,838	NA	NA	229	191
	Average	6,446	286	-6	NA.	6,720	NA	NA		

¹ Stocks are totals as of end of period.

Beginning In 1981, excludes blending components.

³ A negative number indicates an increase in stocks and a positive number indicates a decrease.

⁴ Includes gasohol,

Includes motor gasoline blending components.
In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks

reported and stock withdrawal calculations. See Explanatory Note 10.

7 Beginning in January 1981, survey forms were modified. See Explanatory Note 12.

^{*} See Explanatory Note 9.3.

** Italics denote estimates based upon preliminary data. See Explanatory Note 8.

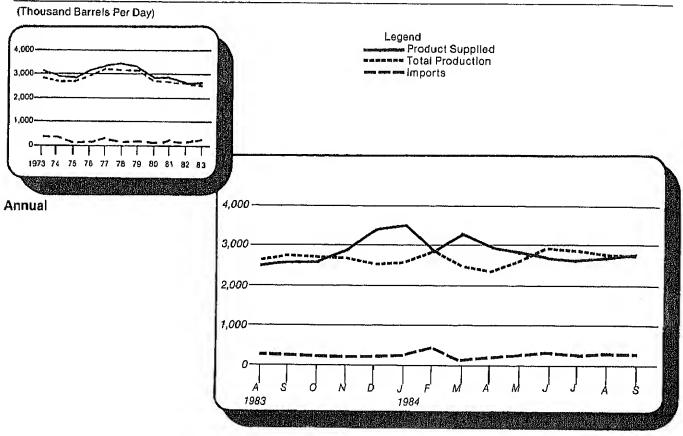
R = Revised data. NA = Not available. (s) = Less than 500 barrels per day.

Note: Geographic coverage is the 50 United States and the District of Columbia.

Total may not equal sum of components due to Independent rounding.

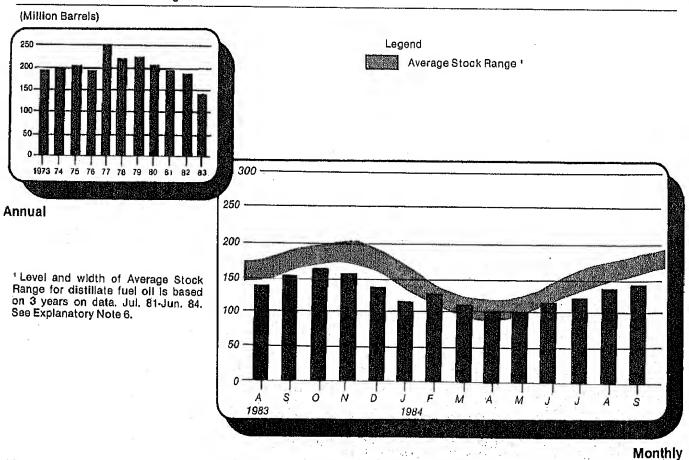
Source: See the last page of this section.

Distillate Fuel Oil Supply and Disposition



Distillate Fuel Oil Ending Stocks





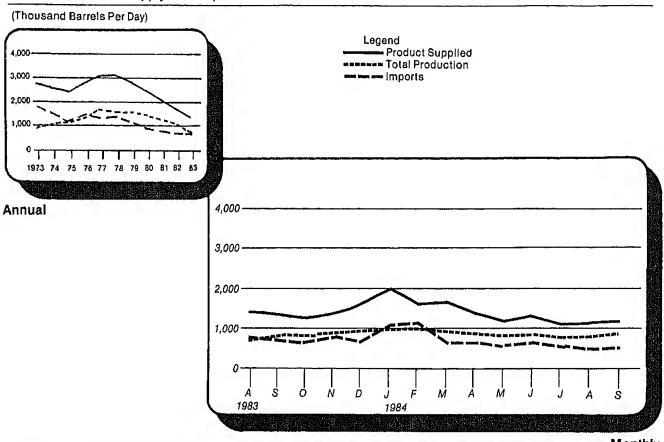
			Su	pply		Dispo	osition	Ending Stocks ¹
		Total Production	Imports	Stock Withdrawai ²	Crude Used Directly ³	Exports	Products Supplied ³	
			************	Thousand Ba	rrels per Day			Million Barrels
1973	Average	2,822	392	-115	2	9	3,092	196
1974	Average	2,669	289	-9	2	2	2,948	4 200
1975	Average	2,654	155	4 40	2	1	2,851	209
1976	Average	2,924	146	62	1	1	3,133	186
1977	Average	3,278	250	-176	1	1	3,352	250
1978	Average	3,167	173	93	1	3	3,432	216
1979	_	3,153	193	-34	i	3	3,311	229
	Average	2,662	142	64	i	3	2,866	4 205
1980	Average			4 38	10	5	2,829	192
1981	Average ⁵	2,613	173	- 30	10		2,02,0	
1982	January	2,606	97	876	10	90	3,484	164
	February	2,427	132	605	11	90	3,085	147
	March	2,288	48	682	10	84	2,945	126
		2,358	59	612	13	64	2,978	108
	April		74	-183	10	75	2,444	114
	May	2,618			10	5 5	2,452	124
	June	2,729	102	-335		24	2,058	148
	July	2,734	125	-78 9	11			
	August	2,507	80	-339	10	40	2,218	159
	September	2,657	61	-85	12	139	2,507	161
	October	2,838	91	-289	8	66	2,581	170
	November	2,860	145	-514	8	24	2,475	186
	December	2,655	109	225	10	143	2,855	4 179
	Average	2,606	93	35	10	74	2,671	
1083	January	2,321	68	4 580	NA	173	2,797	168
1300	February	2,135	59	691	NA	105	2,780	148
		1,993	42	97 1	NA NA	59	2,947	118
	March		73	500	NA NA	47	2,697	103
	April	2,171			NA NA	50	2,354	109
	May	2,444	147	-186				114
	June	2,546	179	-161	NA	40	2,524	
	July	2,604	267	-546	NA	55	2,270	131
	August	2,615	301	-379	ŅĄ	43	2,495	142
	September	2,739	259	-386	NA	37	2,575	154
	October	2,681	260	-276	NA	55	2,611	163
	November	2,680	203	45	NA	54	2,874	161
	December	2,522	221	676	NA	54	3,365	140
	Average	2,456	174	124	NA	64	2,690	
1984	January	2,585	270	676	NA	40	3,490	119
	February	2,864	458	-439	NA	41	2,842	132
	March	2,480	115	727	NA NA	66	3,256	110
			220	393	NA NA	32	2,929	98
	April	2,347						98
	May	2,633	252	-10	NA	48	2,827	
	June	2,879	266	-490	NA	53	2,602	113
	July	2,736	198	-375	NA	40	2,518	125
	August*	R 2,678	FI 263	R-291	NA	74	FI 2,575	R134
	September**	2,714	272	-193	NA :	NA.	2,747	142
	Average	2,656	256	4	NA .	NA	2,866	

Stocks are totals as of end of period.

Stocks are totals as of end of period.
 A negative number indicates an increase in stocks and a positive number indicates a decrease.
 Beginning in January 1983, product supplied for distillate fuel oil does not include crude oil used directly. See Explanatory Note 4.
 In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.
 Beginning in January 1981, survey forms were modified. See Explanatory Note 12.
 See Explanatory Note 9.4.
 Italics denote estimates based upon preliminary data. See Explanatory Note 8.
 R = Revised data. NA = Not available, (s) = Less than 500 barrels per day.
 Note: Geographic coverage is the 50 United States and the District of Columbia.
 Total may not equal sum of components due to independent rounding.

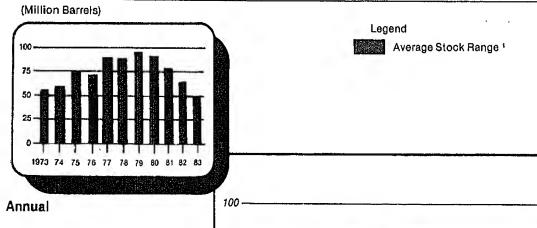
Total may not equal sum of components due to independent rounding. Source: See the last page of this section.

Residual Fuel Oil Supply and Disposition

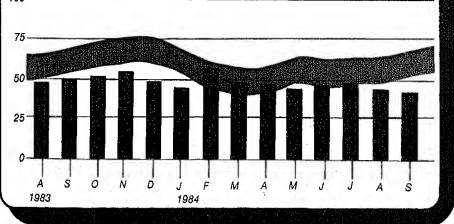


Residual Fuel Oil Ending Stocks

Monthly



¹ Level and width of Average Stock Range for residual fuel oil based on 3 years of data. Jul. 81-Jun. 84. See Explanatory Note 6.



Monthly

			Su	pply		Dispe	osition	Ending Stocks ¹
		Total Produc- tion	Imports	Stock Withdrawal ²	Crude Used Directiy ³	Exports	Products Supplied ³	
				Thousand Ba	rels per Day			Million Barrels
1973	Average	971	1,853	5	17	23	2,822	53
1974	Average	1,070	1,587	-17	13	14	2,639	4 60
1975	Average	1,235	1,223	4 2	15	15	2,462	74
1976	Average	1,377	1,413	5	17	12	2,801	72
1977	Average	1,754	1,359	~48	13	6	3,071	90
1978	Average	1,667	1,355	-1	13	13	3,023	90
1979	Average	1,687	1,151	~15	12	9	2,826	96
1980	Average	1,580	939	10	12	33	2,508	4 92
1981	Average ⁵	1,321	800	4 37	48	118	2,088	78
982	January	1,235	831	301	53	235	2,185	69
	February	1,186	956	363	53	213	2,344	58
	March	1,123	912	12	53	197	1,903	58
	April	1,166	788	150	52	234	1,923	54
	May	1,128	742	-172	52	191	1,560	59
	June	1,074	652	- 57	50	217	1,501	61
	July	1,028	657	56	49	239	1,550	59
		965	551	203	47	235	1,531	53
	August			-306	44	148	1,470	62
	September	1,008	872			234		64
	October	955	783	-57	43		1,490	66
	November	989	837	-94	43	182	1,591	
	December	989	747	6	43	186	1,598	4 66
	Average	1,070	776	32	48	209	1,716	
983	January	972	691	4 258	NA	294	1,626	61
	February	857	647	257	NA	191	1,570	53
	March	835	686	227	NA	169	1,579	46
	April	941	753	-10	NA	310	1,374	47
	May	936	738	-141	NA	190	1,342	51
	June	828	677	36	NA	218	1,323	50
	July	769	684	-64	NA	90	1,299	52
	August	710	739	115	NA	165	1,400	48
	September	826	706	-47	NA	134	1,351	50
	October	807	638	-50	NA	153	1,243	51
	November	845	780	-97	NA	167	1,362	54
	December	897	649	182	NA	141	1,587	49
	Average	852	699	55	NA	185	1,421	
984	January	953	1,061	119	NA	151	1,981	45
•	February	1,003	1,107	-420	NA	87	1,602	58
	March	887	633	321	NA	204	1,637	48
	April	840	637	9	NA	130	1,357	47
	May	829	554	35	NA	200	1,218	46
	June	841	676	-17	NA NA	176	1,324	47
			596	-77	NA NA	99	1,213	49
	July	792					1,610 D1000	
	August*	R 808	R 572	R146	NA	260	R1,266	R 45
	September**	872	548	-30	NA	NA	1,257	44
	Average	868	707	13	NA	, NA	-1,428	

¹ Stocks are totals as of end of period.

<sup>Stocks are totals as of end of period.
A negative number indicates an increase in stocks and a positive number indicates a decrease.
Beginning in January 1983, product supplied for residual fuel oil does not include crude oil used directly. See Explanatory Note 4.
In January 1975, 1981, and 1983, numerous respondents were added to surveys affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.
Beginning in January 1981, survey forms were modified. See Explanatory Note 12.</sup>

See Explanatory Note 9.4.

^{**} Italics denote estimates based upon preliminary data. See Explanatory Note 8.

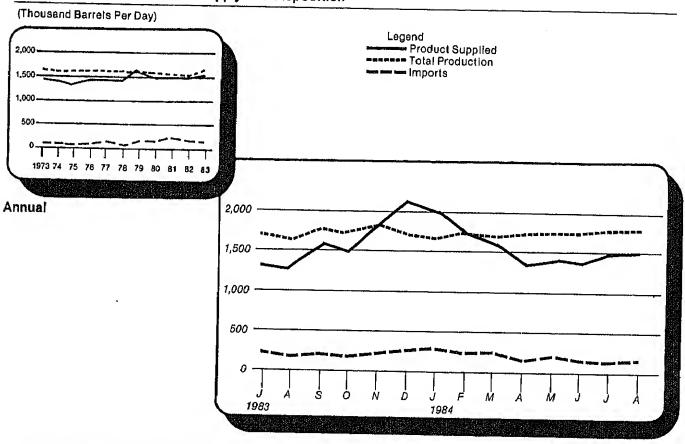
R = Revised data. NA = Not available. (*) = Less than 500 barrels per day.

Note: Geographic coverage is the 50 United States and the District of Columbia.

Total may not equal sum of components due to independent rounding.

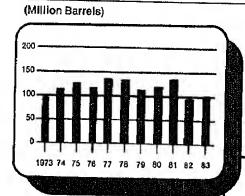
Source: See the last page of this section.

Liquefied Petroleum Gases Supply and Disposition





Monthly

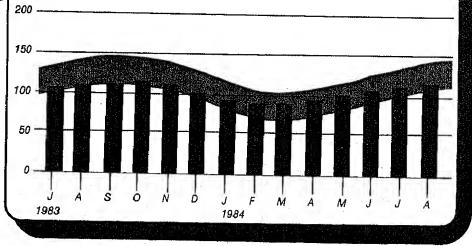


Legend

Average Stock Range1

Annual

¹ Level and width of Average Stock Ranges for liquefied petroleum gas based on 3 years of data, Jul, 81-Jun, 84. See Explanatory Note 6.



Monthly

Liquefied Petroleum Gases Supply and Disposition

			Supply			Disposition		Ending Stocks ²
		Total Production	imports	Stock Withdrawai ³	Refinery Inputs	Exports	Products Supplied	
	_			Thousand Bai	rreis per Day		1,	Millon Barrels
1973	Average	1,600	132	-35	220	27	1,449	99
1974	Average	1,565	123	-38	220	25	1,408	4 113
1975	Average	1,527	112	4 -35	246	26	1,333	125
1976	Average	1,535	130	24	260	25	1,404	116
1977	Average	1,566	161	-55	233	18		
1978	_	1,537	123	-55 12	233 239		1,422	136
	Average					20	1,413	132
1979	Average	1,556	217	70	236	15	1,592	111
1980	Average	1,535	216	-27	233	21	1,469	4 120
1981	Average	1,571	244	4 -18	269	42	1,466	135
1982	January	1,565	314	443	391	67	1,863	121
	February	1,466	291	243	327	51	1,621	114
	March	1,544	223	211	289	74	1,615	108
	April	1,506	188	98	257	77	1,458	105
	May	1.565	186	-71	234	43	1,403	107
	June	1,515	192	-86	262	106	1,254	109
	July	1,476	227	-13	253	37	1,399	110
	August	1,511	125	-45	254	61		
	September	1,538	247				1,276	111
				37	274	85	1,463	110
	October	1,517	194	.97	306	81	1,421	107
	November	1,542	267	175	363	37	1,583	102
	December	1,580	258	256	395	56	1,642	4 94
	Average	1,528	226	111	300	65	1,499	
	January	1,611	240	4 5.20	313	118	1,939	86
	February	1,600	305	128	244	76	1,713	82
	March	1,543	166	-9	197	127	1,377	82
	April	1,607	124	-156	198	116	1,260	87
	May	1,613	167	-225	207	84	1,263	94
	June	1,664	172	-334	203	59	1,241	104
	July	1,656	191	-221	217	55 55		
	August	1,586	160	-199	229		1,354	111
	September	1,705	178			29	1,289	117
	October			-30	236	86	1,531	118
		1,688	160	-81	268	32	1,467	120
	November	1,785	180	70	362	33	1,640	118
	December	1,645	247	575	363	66	2,038	4 101
	Average	1,642	190	4	253	73	1,509	
	January	1,610	269	4 470	333	23	1,993	93
	February	1,690	237	146	323	41	1,708	89
i	March	1,685	241	12	289	68	1,581	89
	April	1,711	155	-170	253	54	1,389	94
	May	1,709	211	-221	244	42		101
	June	1,714	158	-189	237		1,412	
	July	1,750	132			53	1,394	106
				-138	232	43	1,469	111
•	August*	1,744	154	-132	241	34	1,491	115
	Average	1,702	195	~28	269	46	1,555	

* See Explanatory Note 9.5.

Note: Geographic coverage is the 50 United States and the District of Columbia.

Total may not equal sum of components due to independent rounding.

Source: See the last page of this section.

Includes ethane, propane, normal butane, and isobutane.
 Beginning in January 1984, unfractionated stream is reported by individual product.

 Stocks are totals as of end of period.
 A negative number indicates an increase in stocks and a positive number indicates a decrease.
 In January 1975, 1981, 1983, and 1984, a new stock basis was established affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.
 See Explanatory Note 9.5.

Other Petroleum Products¹ Supply and Disposition

			Supply			Disposition		Ending Stocks ²
		Total Production	Imports	Stock Withdrawai ³	Refinery Inputs	Exports	Products Supplied	
				Thousand Bar	rels per Day			Million Barrels
1973	Average	3,693	502	-9	750	166	3,270	208
1974	Average	3,558	432	-28	665	174	3,123	4 218
1975	Average	3,424	277	4 -2	537	160	3,002	219
1976	Average	3,643	206	-5	524	175	3,145	220
1977	Average	3,912	205	-27	514	165	3,410	230
1978	Average	4,046	166	14	492	167	3,568	225
1979	Average	4,153	195	-37	352	209	3,749	238
1980	Average	3,956	210	-23	311	198		
1981	Average	3,739	226	4 46	723	199	3,634 3,088	⁴ 247 282
1982	January	3,171	269	-7	624	180	2,631	282
	February	3,403	305	-153	663	138	2,755	287
	March	3,466	243	-191	725	161	2,631	293
	April	3,408	309	73	796	204	2,790	290
	May	3,317	318	184	824	210	2,785	285
	June	3,547	315	123	812	216	2,763	
	July	3,660	408	-1	856	187		281
	August	3,583	346	217	743	202	3,023	281
;	September	3,533	375	105	749		3,201	274
	October	3,529	383	244	915	213	3,051	271
i	November	3,498	423	-28		266	2,976	264
	December	3,324	313	366	837	269	2,786	264
	Average	3,453	334	80	885 787	275	2,842	⁴ 253
	Innua.				707	211	2,869	
	January	3,194	322	4 -419	588	271	2,239	271
	ebruary	3,229	321	12	673	232	2,658	270
	March	3,381	319	-147	572	249	2,732	275
	April	3,299	404	-24	592	247	2,840	276
	May	3,405	374	35	705	242	2,866	275
	lune	3,610	444	96	717	292	3,144	272
	July	3,636	425	148	735	209	3,265	267
	August	3,695	482	30	668	242	3,297	266
	September	3,792	497	-6	788	236	3,255	
	October	3,578	424	-107	711	195		266
1	lovember	3,568	441	95	912	238	2,990	270
	December	3,123	479	361	883		2,957	267
	Average	3,460	411	6	712	257 242	2,823 2,923	4 256
984 J	anuary	3,391	486	4 -177	561	007		
	ebruary	3,582	586	-256		207	2,931	253
	1arch	3,510	466	-236 -218	751	225	2,935	261
	pril	3,584	582		530	258	2,969	268
	lay	3,683	642	-207	627	268	3,063	274
	une	3,863		-118	775	257	3,175	277
	uly	3,866	521	404	1,229	343	3,213	265
	ugust*		567	278	1,034	238	3,438	257
	Average	3,855	561	24	648	172	3,621	256
	Visiañe	3,667	551	-34	768	246	3,170	#00

Includes pentanes plus, other hydrocarbons and alcohol, unfinished oils, gasoline blending components and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil, and liquefied petroleum gases.
 Stocks are totals as of end of period.

Source: See the last page of this section.

Stocks are totals as of end of period.
 A negative number indicates an increase in stocks and a positive number indicates a decrease.
 In January 1975, 1981, 1983, and 1984, a new stock basis was established affecting stocks reported and stock withdrawal calculations. See Explanatory Note 10.
 See Explanatory Note 9.6.
 Note: Geographic coverage is the 50 United States and the District of Columbia.
 Total may not equal sum of components due to independent rounding.
 Source: See the last page of this section.

Sources

- 1973 through 1976: U.S. Department of the Interior, Bureau of Mines, Mineral industry Surveys, Petroleum Statement, Annual and PAD Districts Supply/Demand, Annual.
- 2. 1977 through 1980: Energy information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual and PAD Districts Supply/Demand, Annual, and unleaded gasoline data from Monthly Petroleum Statistics Report.
- 3. January 1981 through December 1983: EIA, Petroleum Supply Annual.
- 4. January 1984 through August 1984: Detailed statistics in appropriate issues of the *Petroleum Supply Monthly*. (See Expianatory Notes 9.1 through 9.6).
- 5. September 1984: Estimates based on EIA weekly data (except domestic crude oil production) (see Explanatory Note 1.1).
- January 1984 through September 1984: Domestic crude oil production estimate based on historical statistics from State Conservation Agencies and the U.S. Geological Survey. (See Explanatory Note 3).

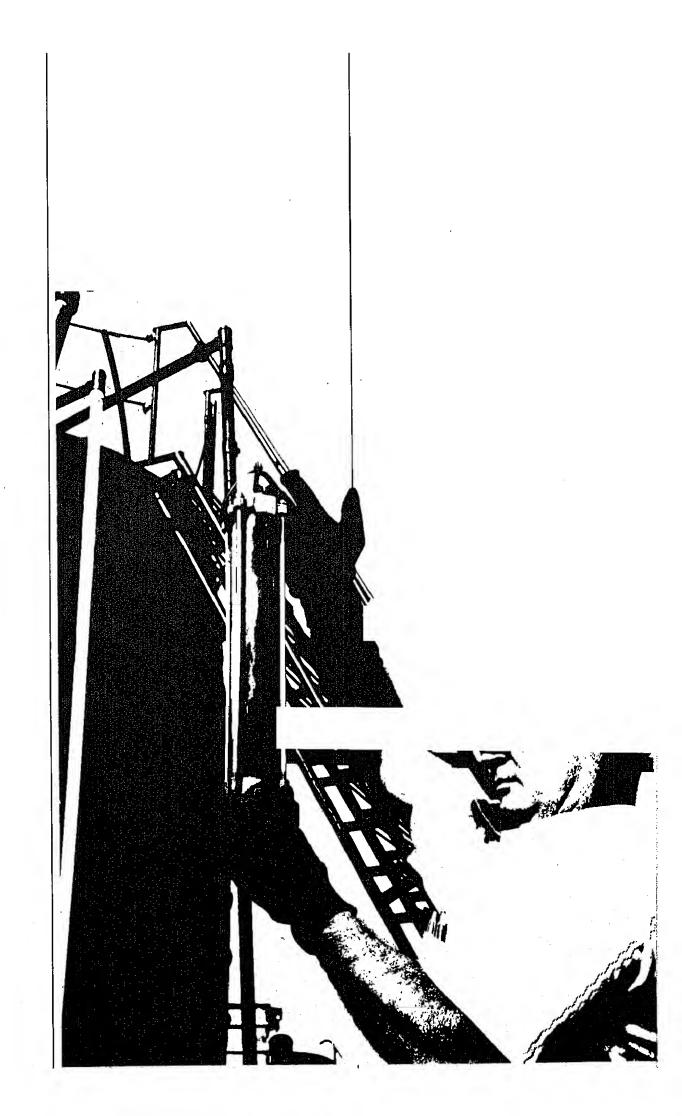


Table 1. U.S. Petroleum Balance, August 1984

	Curren	Month	Year-t	o-date
	Thousand Barrels	Thousand Barrels per Day	Thousand Barrels	Thousand Barrels per Day
Crude Oil (Including Lease Condensate)				
Field Production		. = - =	F	4 350
(1) Alaska	E 53,478	1,725	E 427,772	1,753
(2) Lower 48 States	E 218,736	7,056	E 1,702,233	6,976
(3) Total U.S.	E 272,214	8,781	€ 2,130,005	8,730
Net Imports	04.070	3,064	775,762	3,179
(4) Imports (Gross Excluding SPR)	94,972 5,581	180	50,985	209
(5) SPR Imports	5,886	190	45,219	185
(6) Exports	94.666	3,054	781,528	3,203
(7) Imports (Net Including SPH)	34,000	5,054	707,020	4,4
	-5,563	-179	-50.378	-206
	13,307	429	8,257	34
	-2,000	-65	-15,634	-64
(10) Product Supplied and Losses	11,881	383	89,521	367
	17,625	569	31.766	130
(12) Total Other Sources(13) Crude Input to Refineries	384,505	12,403	2,943,299	12,063
(13) = (3) + (7) + (12)	55 1,555	72,102		• •
Natural Gas Plant Liquids (NGPL)				
(14) Field Production	51,543	1,663	395,053	1,619
	1,738	56	9,689	40
(15) Net Imports 2	421	14	-1,783	-7
	53,702	1,732	402,959	1,651
(17) Total NGPL Supply	30,702	1,.02	.02,000	,,,,,,,
Unfinished Olls and Gasoline Blending Components, Total				_
(18) Stock Withdrawal (+) or Addition (-)	-116	-4	-98	0
(19) Imports	7,886	254	75,179	308
(20) Other Hydrocarbons and Alcohol New Supply (Field Production)	1,004	32	11,602	48
(21) Refinery Processing Gain 1	16,487	532	134,047	549
(22) Crude Oil Product Supplied	1,960	63	15,291	63
(23) Total Other Liquids	27,221	878	236,021	967
(23) = (18) through (22)				44.004
(24) Total Production of Products 3	465,428	15,014	3,582,279	14,681
(24) = (13) + (17) + (23)				
Net Imports of Refined Products 3			105.107	4.004
(25) Imports (Gross)	45,878	1,480	405,187	1,661
(26) Exports	16,729	540	123,529	506
(27) Imports (Net)	29,149	940	281,658	1,154
(28) Total New Supply of Products	494,577	15,954	3,863,937	15,836
(28) = (24) + (27)	5,440	175	-2,978	-12
(29) Refined Products Stock Withdrawal (+) or Addition (-) 3	5,440	*/**		
(30) Total Petroleum Products Supplied for Domestic Use	500,017	16,130	3,860,960	15,824
			4 400 407	6 700
(31) Finished Motor Gasoline	220,549	7,114	1,636,187	6,706
(32) Distillate Fuel Oil	79,823	2,575	703,007	2,881
(33) Residual Fuel Oil	39,232	1,266	353,602	1,449
(34) Liquefied Petroleum Gases	46,217	1,491	379,325	1,555
(35) Other 4	112,236	3,621	773,548	3,170
(36) Crude Oli	1,960	63	15,291	63
(37) Total Product Supplied	500,017	16,130	3,860,960	15,824
(37) = (31) through (38)				
Ending Stocks, All Oils			001010	
(38) Crude Oli and Lease Condensate (Excluding SPR)	334,919		334,919	
(39) Strategic Petroleum Reserve (SPR)	429,467		429,467	
(40) Unfinished Oils	106,056		106,056	
(41) Gasoline Blending Components 5	39,062		39,062	
(42) Pentanes Plus	10,548		10,548	
(43) Finished Refined Products 3	580,028		580,028	'
(44) Total Stocks	1,600,080		1,500,080	

A balancing Item.
 Includes products in the pentanes plus category only.
 For products included see Explanatory Note 9.7.
 Includes pentanes plus, other liquids, and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil and liquefled petroleum gases.
 Includes other hydrocarbons and alcohol.
 E = Estimated.

 Not Applicable.

 Note: Total may not equal sum of components due to Independent rounding. Sources and estimation procedures: See Explanatory Notes 1, 2 and 9.7.

Table 2. Supply and Disposition of Crude Oil and Petroleum Products, August 1984 (Thousand Barrels)

			Strongy							
								USPOSITION		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Crude Losses	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 272,214	٥	100,552	7,744	11,881	40	384,505	5,886	1,960	764.386
Natural Gas Liquids and LRGs	51,436	12,188	6.578	-3.656	c	c	000			
Pentanes Plus	9,557	0	1.814	421	o c	•	14,033	S	51,325	125,126
Liquefied Petroleum Gases	41,879	12.188	4.765	4	- C	-	2,008	9 5	5,108	10,548
Ethane	15,952	695	1,624	101		0	685,	50°L	46,217	114,578
Propane	16,276	8,885	1,831	-3.178	0	• •	<u> </u>	261	17,55	20,772
Normal Butane	6,487	2,654	786	-918	•	• =	2 573	9/0	73,134	62,245
isobutane	3,164	9	524	120	0	0	3,741	243 76	9,107 -55	9,429
Other Liquids	1 004	c	7 896		•	•				
Other Hydrocarbons and Alcohol	700	o c	000,	9 5	o (0	13,479	0	-4,705	145,118
Unfinished Oils	2	> 0	0 000	€ !	φ.	0	-, 260,	0	0	328
Motor Gasoline Blanding Components	- c	> c	095,0	4/-	0	0	9,364	0	4,078	106,056
Aviation Gasoline Blanding Components	> 0	5 0	4252	-151	0	0	3,006	0	- 63	38.523
reaching Digital Digitality	>	5	0	49	0	0	75	0	4	211
Finished Petroleum Products	107	416,376	41,114	9.517	c	•	c	i i		
Finished Motor Gasoline	-	100 505	7.590	12 550	•	> (.	0/0'01	451,437	465,450
Finished Leaded Motor Gasoline		78.213	20,5	2,000	- (>	6	4	220,549	186,580
Finished Unleaded Motor Gasoline	- c	191 100	3,010	82.7	0	0	0	4	88,408	85,802
Finished Aviation Gasoline		121,132	4 5 6	5,430	0	0	0	0	132,141	100,778
Naphtha-Type Jet Firet	> c	944	2 5	108	0	0	0	0	1,120	2.403
Kensene Type let Eriel	-	255,7	25	-202	0	0	0	58	7.951	2.060
Kerosene	> (30,415	2,290	-1,879	0	0	0	52	30,774	38.582
Distillate Fire Oil	>	2,73	247	459	0	0	0	4	2,497	8.487
Besidual Fuel Oil	Ž	62,954	4,155	-9,033	0	0	0	2,305	79,823	133.540
Nanhtha / Ann Dea for Detro Enad 1120	5 6	CED'62	17,729	4,533	0	0	0	8,065	39.232	44.672
Other Oils / 400 Dea for Data Food 180	> (3,366	1,280	-36	0	0	0	189	4.420	1.877
Special Naphthas	.	6,945	0	-149	0	0		124	6.673	1 752
Inhorante	5 (1,683	1,543	275	0	0	0	36	3,475	2.614
Moore	-	5,132	331	-50 4	0	0	0	279	4 680	10.04
Dottoloum Coto	0 (437	32	21	0	0	0	8	468	553
Acabett and Dond Oil	.	12,434	0	134	0	0	0	4.459	8.109	4 769
Still Gae	-	18,061	975	3,053	0	0	0	5.	22.038	18.348
Miscellaneous Products	⊃ ;	17,629	0	0	0	0	0	0	17,629	0
	\$	08c,r	288	97	0	0	0	35	1,997	1,969
Total	324,761	428,564	156,131	13,489	11.881	40	412 077	22 601	500 043	000
	i				•				2000	1,300,000

Unaccounted for crude oil is a balancing item.
 = Less than 500 barrels.
 E = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 3. Year-to-Date Supply and Disposition of Crude Oil and Petroleum Products, January - August 1984 (Thousand Barrels)

			Supply					Disposition		
			Andre	Stock						
4	Field	Refinery		With	Unac- counted	Crude	Refinery		Products	Ending
Commodity	Produc- tion	Produc- tion	Imports	drawal (+) or Addi-	For Crude Oil1	Losses	Inputs	Spodxa	Supplied	Stocks
				tion (-)						
Crude Oil (including lease condensate)	. E 2,130,005	0	826,747	-42,121	89,521	343	2,943,299	45,219	15,291	764,386
	393 740	92.261	57.806	-8.604	0	6	113,965	11,550	409,687	125,126
	70.812		10,338	-1,783	0	0	48,356	649	30,362	10,548
	300 GCE	42.261	47.468	-6.821	0	0	62,609	10,902	379,325	114,578
Liqueired Perforeuri Gases	122 996	5.662	19,605	607	0	0	514	1,297	147,059	20,772
December 1	126 593	68.389	14,897	-6,965	0	0	936	6,307	195,671	62,245
Manual District	49 441	18,380	7,837	-1,743	0	0	35,366	2,649	35,900	22,132
Isobutane	23,898	-170	5,129	1,280	0	0	28,793	649	695	9,429
	11 603	c	75.179	89	0	0	139,100	0	-52,417	145,118
Other Liquids	1,004) c		Ą	0	0	11,559	0	0	328
Other Hydrocarbons and Alcohol	300,11	o c	62.73	1 442	•	0	100,287	0	-41,506	106,056
Unlinished Oils	o C	o C	17.834	-1.603	0	0	27,152	0	-10,921	38,523
Motor Gasoline Biending Components	· c	· c	· ·	106	0	0	102	0	9	211
Avation Gasoline Blending Components	•	•	•	2	٠					
The state of the s	1 312	3 228 150	357.719	3.843	0	0	0	112,627	3,488,398	465,450
Finished Peroleum Products	207	1 568 562	69 42B	-1.085	0	0	0	1,215	1,636,187	186,580
Finished Motor Gasoline	3 6	800,000	31 889	8 282	0	0	0	1,215	679,611	85,802
Finished Leaded Motor Gasoline	620	070,040	27.530	798.6-		0	0	0	956,576	100,778
Finished Unleaded Motor Gasoline	8	320,030	50.75	440		C	0	0	6,672	2,403
Finished Aviation Gasoline	> (647,0	200	11.0	c	· C	0	200	54,221	7,060
Naphtha-Type Jet Fuel	0	230,000	4,182	7 6	•	o c	0	1.127	227,198	38,582
Kerosene-Type Jet Fuel Kerosene-Type	> (25,233	12,10/	#17'0 -	· c	· c	0	83	26,744	8,487
Kerosene	æ g	514.02	7/6,1	200 4	• •		0	12,083	703,007	133,540
Distillate Fuel Oil	9 15	045,976	10000	700,0	o C	0	0	40,039	353,602	44,672
Residual Fuel Oil	5 6	010,112	0000	465	o c	c	0	1,621	37,408	1,877
Naphtha < 400 Deg. for Petro. Feed. Use	5	31,000	970'/	3 4		• •	0	3,469	60,749	1,752
Other Oils > 400 Deg. for Petro. Feed. Use	⊃ ຜ	49 557	14 089	230	. 0	0	0	615	28,421	2,614
Special Naphthas	3	100.00	0.478	0. L		0	0	3,802	37,892	12,244
Lubricants	o 6	00,00	3,000	224	c	0	0	301	3,733	223
Waxes	> 0	0,400	9	1 2	· c	0	0	47,725	60,573	4,769
Petroleum Coke	-	000,701	009 +	444	· c	c	0	148	95,910	18,348
Asphalt and Road Oil	> (00000	000,	•	o C	0	0	0	138,280	0
Still Gas	2 6	130,200	0000	150	0	0	0	261	17,801	1,969
Miscellaneous Products	550 0	no't	1	3						,
Total	2,536,660	3,330,411	1,317,451	-46,980	89,521	343	3,196,364	169,397	3,860,960	1,500,080
	•									

¹ Unaccounted for crude oil is a balancing item.
(s) = Less than 500 barrels.

E = Estimated.

Note: Total may not equal sum of components due to independent rounding.

Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 4. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, August 1984 (Thousand Barreis per Day)

			Stools						
				Jodg			Disposition	sition	
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	With- drawal (+) or Addi- fion (-)	Unac- counted For Crude Oiti	Crude Losses	Refinery Inputs	Exports	Products Supplied
Crude Oil (Including lease condensate)	€ 8,781	٥	3,244	250	363	,			
Natural Gas Liquids and 1 p.g.	,		!	2	700	-	12,403	190	63
Pentanes Plus	1,659	393	212	-118	0	•	757	•	
Liguetied Petroleum George	308	0	59	7	• =	> c	400	36	1,656
Fittane	1,351	393	154	-133	c	> 0	213	CV.	165
Propaga	515	22	52	ទ	.	> (241	8	1,491
Nomal Distance	525	287	6 10	100	-	D (N	រភ	579
Postuta pudite management and the property of	503	86	ξ	3 6	- (0	ო	19	746
**************************************	102	7	4	3 5	-	٥,	115	80	167
Other Limitae				•	5	0	121	2	?
Other Liverson and All All All All All All All All All Al	32	0	254	7	•	•			
Vale rydiocarbons and Alcohol	35	o	-	•	> 1	0	435	0	-152
Material City of the Commence	0	0	173	- c	-	0	8	0	0
Aviation Cassime Blending Components	0	0	. 6	7 4	•	0	302	0	-132
Aviaudit Gasoline Blending Components	0	· C	5 6	ŗ	> '	0	97	0	2
		•	>	2	0	0	7	0	<u>(S</u>
Finished Petroleum Products	e	12 421	1	100					C
Finished Motor Gasoline		200	1,326	307	0	0	¢	S	14 500
Finished Leaded Motor Gasoline	D @	954.0	243	437	0	0		3 -	7447
Finished Unleaded Motor Gasoline		2,526 0,526	97	230	0	0	o c	- +	7.14
Finished Aviation Gasoline	> 0	606,5	146	202	0	•	· c	- c	7,852
Naphtha-Type Jet Fuel	- 6	0.0	7	က	0	0		.	4,763
Kerosene-Type Jet Fuel	> (243	2	7	0	· c	• •	> •	8
Kerosene	> 0	381	74	φ	0	· C		- ‹	8
Distillate Fuel Oil	.	88	œ	-15	0	· c	o c	N N	
Residual Fuel Oil	- (2,676	263	-291	0) C	0	e ;	
Naphtha < 400 Dea for Potro Eggs 160	5	808	572	146		· c	•	4 6	2,575
	5 (109	4	T	· c		> 0	9	1,266
Special Manhthae	0	224	0	ιņ	· c		> 0	۵	143
inhicante	0	አ	20	σ	· c	• •	5 (4	215
Wayse	0	166	7	, L	•	-	0 (-	112
Dottol Calo	0	7	-	-	> c	> (-	on.	151
	0	401	· c		5 (-	0	-	5
Aspnan and Hoad Oil	0	583	,	7 6	- (0	0	4	262
SEO IIIO	0	569	; <	9 0	- (0	0	٧,	711
Miscellaneous Products	N	51	σ	> (1	⇒ (0 (0	0	569
			,	3	>	0	0	-	4
- 0.td	10,476	13,825	5,036	435	383	-	13 303	F	
1 Unaccounted for enide oil is a halandar to							2044	787	16,130

¹ Unaccounted for crude oil is a balancing item. (s) = Less than 500 barrels. Estimated.

Note: Total may not equal sum of components due to independent rounding. Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 5. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January - August 1984 (Thousand Barrels per Day)

			Along				Disposition	sition	
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude	Crude Losses	Refinery Inputs	Exports	Products Supplied
Crude Oil (including lease condensate)	E 8,730	O	3,388	-173	367	₹~	12,063	185	8
	1644	378	237	-35	0	0	467	47	1,679
Natural Gas Liquids and Linus	290	0	42	7-	0	0	198	က	124
Pentanes Flus	+ 323	378	195	-78	0	0	269	45	1,555
Liquened Petroleum Gases	504	83	80	8	0	0	2	<u>.</u> ب	603
Purally	519	280	61	-59	0	0	4	56	805
Moreon Distance	203	75	32	۲-	0	0	145	-	147
Isobutane	88	٦	21	c)	0	0	118	ო	m
	48	c	308	<u>s</u>	o	O	570	0	-215
Other Liquids	₽ €	· c	6	<u>.</u>	0	0	47	0	0
Other Hydrocarbons and Alconol	ş =	•	235	9	0	0	411	0	-170
	o c	· c	73	1-	0	0	11	0	45
Motor Gasoline Blending Components	0	0	(s)	(8)	0	0	(s)	0	(s)
Available described services and a service and a services and a service and a services and a service a	į			,	((c	462	14 297
Finished Petroleum Products	c)	13,271	1,466	19	o (> (-	704	A 706
Firshed Motor Gasoline	2	6,429	285	7	0 1	> (- (n u	9.785
soline	7 -	2,624	131	8	φ.	-	-	n (3 020
Finished Unleaded Motor Gasoline	-	3,804	15. 24.	89 3	2 6	-	o c	-	27
Finished Aviation Gasoline	0	. 26 26	Νļ	<u>.</u>	> 0	o c	0 0	•	522
Naphtha-Type Jet Fuel	0	203	- 5	, c	o c	0	0	. ro	931
Kerosene-Type Jet Fuel	o	- S	ρ α	3 9	· c	0	0	<u>s</u>	110
Kerosene	<u>.</u>	2 5.47	254	8	0	0	0	S	2,881
Distrigre Fuel Oil	- c	1 888	727	18	0	0	0	<u> </u>	449
Hesiotal File Oil		129	ਲ	٣	0	0	0	7	153
Naphrina < 400 Deg. 101 retro, reed. Use		, E	0	<u>(s)</u>	0	0	0	14	249
Other Oils > 400 Deg. for really, reed, Use	ક	26	6		0	0	0 (m (116
i	, ,	161	5	7	0	0	ים י	۰ ۾	נו י
LUDIKGRIBS		14	-		0	0	0	- !	0.00
Waxes A-1-		441	0	ო	0	0	0	196	24.8
	. c	385	7	2	0	0	0	1	333
Toga Cil		567	0	0	0	٥	0	0	<u> </u>
Shil Gas	N 0	8	12	7	0	0	0	-	73
	300.01	13 640	299	193	367	_	13,100	694	15,824
Total	255,01	-10,01		; !			ļ		

 ¹ Unaccounted for crude oil is a balancing item.
 (s) = Less than 500 barrels.
 E = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

.. PAD District I, Supply and Disposition of Crude Oil and Petroleum Products, August 1984 (Thousand Barrels)

			Ū	Supply							
				7000				Disp	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Net Receipts	Crude Losses	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 1,814	0	29,620	-349	3.150	3 822	,				
Natural Gas House and Loca					;	3,022	0	38,057	0	0	16,118
Liquefied Petroleum Gases	911 779 132	1,482 1,482 0	1,454 590 864	591 593 -2	900	2,781	000	226 187	38 88	6,955	3,523 3,480
Other Liquids	1			ı	•	•	5	33	0	955	43
Other Hydrocarbons and Alcohol	ដុនុ	o o	2,284	£ 2	00	1,327	0	4,751	0	-389	18.115
Motor Gasoline Blending Composants	0	0	931	997	-	1 206	0 0	- i	0	0	66
Aviation Gasoline Blending Components	00	0 (1,352	-247	0	121	-	4,6/5 75	0 (-1,541	11,896
	5	-	0	0	0	0	0	, c	o c	1,151	6,120
Finished Petroleum Products	Ö	43,716	31,752	5 443	c	100	•	•	o	•	•
Finished I paded Motor Constitution	0	19,842	5,969	6.495	o c	23,183	0 (0	1,005	143,089	155,138
Finished Unleaded Motor Capation	0	6,294	2,384	2.493	c	12.550	- (ο (4	72,212	59,830
Finished Aviation Gasofine	0	13,548	3,585	4,002	0	26.651	0	0 (4	24,425	26,384
Naohtha-Type Jet File!	0	15	89	. 8		137	5 6	o (0	47,786	33,446
Kerosene-Type Jet Filel	0	965	453	-169	0	27.4	> <	0 (0	301	381
Kerosene	0	1,572	1,811	-473	· C	200	> c	5 (0	1,493	1,007
Distillate Fire Oil	0	81	247	-170	· c	, do	-	•	0	11,342	9,202
Residual Fuel Oil	0	8,886	7,303	-3,915	0	12 794	0	- (4	253	3,627
Naphtha and Other Oils for Petro Feed	~ (3,949	14,574	2,809	0	435	o c	> 0	012	24,857	49,181
Special Naphthas	-	380	13	-26	0	φ	• •	o c	212	21,555	21,884
Lubricants	-	\$ {	142	133	0	369	0	o c	ñ	3 3 4 5	288
Waxes	o c	ò	144	-181	0	574	0	· c	t g	000	5 6
Petroleum Coke	> 0	0 5	12	7	0	52	0	· c	3 "	1,030	3,401
Asphalt and Road Oil	> 0	4,256	0	-227	0	0	c) C	י ה	54.5	80
Still Gas	> 0	3,952	819	863	0	127	0	-	200	534	895
Miscellaneous Products	> 0	1,931	0	٥	0	0	c		y c	5,829	4,470
***************************************	•	200	225	114	0	-10	0	0	5	1,931	0 %
Total	2,703	45,198	65,110	6,456	3.150	71 115	c	1000	! !		5
1 Unaccounted for entitle off is a time.						?	•	43,034	1,043	149,655	192,894

Unaccounted for crude oil is a balancing item.
 = Less than 500 barrels.
 = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 7. PAD District II, Supply and Disposition of Crude Oil and Petroleum Products, August 1984 (Thousand Barrels)

(Thousand Barrels)											
			Street	Ž.				Dispo	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi-	Unac- counted For Crude Oil1	Net Receipts	Crude Losses	Refinery	Exports	Products Supplied	Ending Stocks
Cauda Dii finchudina lease condensate)	E 32,373	0	13,735	4,083	38,513	1,000	‡	88,804	887	0	74,588
כנות (יוות חווות ובשכן המווית והיים ביים החווית והיים והיים היים היים היים היים היים הי						;	•		772	10 066	27 459
Natural Gas Liquids and LRGs	10,384	2,417	3,345	-1,794	o c	3,143 2,482	9 0	2,797	465	12,153	33,875
Liquefied Petroleum GasesPentanes Plus	1,500	0	0	\	0	661	0	1,791	76	213	3,584
	97	c	464	-178	0	209	0	722	0	-79	24,476
Other Liquids	9 5	• •	5	и. :	C	0	0	153	0	0	133
Other Hydrocarbons and Alcohol	9	o c	464	-237	0	126	0	115	0	238	16,996
Untinished Citis		0	0	45	0	83	0	445	0	-317	7.270
Aviation Gasoline Blending Components	• •	0	0	o n	0	0	0	ത	0	D	1
	Ą	95 119	608	-975	0	27,256	0	0	341	121,876	123,369
Finished Petroleum Products	2 0	51 640	121	1.897	0	17,177	0	0	0	70,835	55,440
Finished Motor Gasoline		774	55	1 038	C	8.805	0	0	0	31,489	27,414
Finished Leaded Motor Gasoline		90000	ž ţ	859	0	8.372	0	0	0	39,346	28,026
Finished Unleaded Motor Gasoline		50,030	2	108	0	135	0	0	0	340	521
Finished Aviation Gasoline		701	• •	42	0	4	0	0	0	1,215	1,450
Naphtha-Type Jet Fuel		1,124		-515	0	2.166	0	0	0	6,326	9,334
Kerosene-Type Jet Fuel		. C.	0	-547	0	24	0	0	0	227	2,207
Kerosene		20 155	393	-3.101	0	7,180	0	0	0	24,627	39,259
Distillate Fuel Oil		1 033	-	-117	0	66-	0	0	0	1,728	3,642
Residual Fuel Oil		100	i		0	22	0	0	42	891	187
Naphtha and Other Oils for Petro, Feed.		413	172		0	7	0	0	8	858	9/8
Special Naphthas		874		-140	0	72	0	0	18	797	2,153
Lubricants		5	· v		0	45	0	0	-	35	25
Waxes		7 20 2 C) C		C	0	0	0	260	2,406	802
Petroleum Coke		2,000	9 6	- 50		335	0	0	16	8,023	7,686
Asphalt and Road Oil	, ,	0,425 0,425 0,425	200		0	0	0	0	0	3,325	0
Still Gas		25,5	9 6	100	0	-12	0	0	~	190	258
Miscellaneous Products	2	7.	\$!	,	1	137 167	250 992
[20]	42,921	97,529	18,353	1,136	38,513	31,608	3	94,114	£9/'L	56' ts	×60'607

Unaccounted for crude oil is a balancing item.
 Less than 500 barrels.
 E = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 8. PAD District III, Supply and Disposition of Crude Oil and Petroleum Products, August 1984 (Thousand Barrels)

			'								
			75 	Nodas				Distr	Discosition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi-	Unac- counted For Crude	Net Réceipts	Crude Losses	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 132,361	0	52,462	2.461	-25 039	44 074					
Natural Gas Liquids and LRGs	26.36				200	1,9/4	m	174,195	0	21	584.696
Lquefed Petroleum Gases	29,782	6,752 6,752	879 14	-1,187 -1,668	0 C	96,4	0	8,019	346	29,953	79 308
Other Liquids	6,581	0	998	481	•	8 1	00	3,597	346	26,891	72,666
Other Hydrocarbons and Alcohol	543	0	4,275	-1.894	c	4)	3,002	6,640
Unfinished Oils	y S	0	0	2	• •	. c.co.; 1	00	5,254	0	-3,985	67,509
Motor Gasoline Blending Components	0	-	3,953	-2,002	0	-1,451	o c	2445	0 (0	91
Avauori Gasoline Blending Components	0	•	, ,	52	0	-204	0	2,206	-	-1,949	51,305
Finished Petroleum Bradund			•	Ř	0	0	0	7	o c	-2,036	15,990
Finished Motor Gasoline	88	187,341	6,559	979-	c	90 475		1	•	>	123
Finished Leaded Motor Gasoline	- ,	88,835	846	1,944	•	-33,436 -58 748	o (0	4,088	95,797	121.377
Finished Unleaded Motor Gasoline	- c	34,003	8 8	1,567	0	-22.867	0	0 (35	32,846	47.178
Finished Aviation Gasoline	o c	7,832	616	377	0	-35,881	-	٥ (32	12,902	20,414
Naphtha-Type Jet Fuel	•	700	0	-73	0	-299	> 0	> (٥	19,944	26,764
Kerosene-Type Jet Fuel	-	5,598 4,74 4,97	88	유 :	0	4	-	-	٥	180	845
Diefles F1 O.	0	1,660	> c	806-	0	-11,441	0	> c	19	3,145	2,541
Dood of First As	42	37 889	, c	90.0	0	-122	0	o c	>	2,781	13,423
Naphtha and Other City of the Comment	0	8.765	2874	-2,423	0	-20,197	0	•	(3)	1,844	2,315
Special Nachthas	0	8,706	1.263	23.0	0	-336 -	0	0	1.791	10,009	30,597
Lubricants	0	1,122	1,160	96	o c	-19	0	0	82	9,533	012.6
Waxes	0	3,365	52	-293	> c	1 6	0	0	18	1.770	1,37.0
Petroleum Coke	۰	538	12	7	o c	\$ t	0 1	0	132	2.238	, FO3
Asphalt and Road Oil	0 (4,979	0	282	-)	0 (0	7	146	22.5
Still Gas	0 (3,818	88	140	o c	- ç	o (0	1,547	3,714	1 244
Miscellaneous Products	Þ	7,898	0	0	o 0	70	o (0	-	3,523	2.853
	ů.	996	30	7-	0	25.0	> C	0 0	- ;	7,898	0
+ OIBI	169.355	194 003	24.43	,			.	5	Ξ	1,00,1	355
1 The second of		2000	2,5	-1,266	-25,039	-87,627	ო	187.468	7677	400	
(s) = I see than from house.									ţ.	98/17	852,890

Unaccounted for crude oil is a balancing item.
 = Less than 500 barrels.
 = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures. See Explanatory Notes on Data Collection and Estimation.

Table 9. PAD District IV, Supply and Disposition of Crude Oil and Petroleum Products, August 1984 (Thousand Barrels)

(FIDENSAIIG DALICIS)											
			Supply	Noc				Disposition	sition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude	Net Receipts	Crude	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 17,611		805	-17	4,369	0	0	14,026	0	*	13,088
					•	707	•	VOV	c	555	2.054
Natural Gas Liquids and LRGs	2,682	136	394	-763 -784	o c	1,217	-	351	0	3 8	1,820
Liquefied Petroleum Gases	1,820	90	3	7	0	-217	0	Ε	0	623	234
	c	c	c	370	0	0	0	113	0	257	4,063
Other Liquids		•	· c	;	· c	•	0	0	0	0	0
Other Hydrocarbons and Alcohol		o c	o c	5	· c	0	0	-118	0	218	2,458
Untinished Oils		o c	0	270	0	0	0	ន	0	33	1,605
Aviation Gasoline Blending Components	0	0	0	0	0	0	0	0	0	0	0
	r	14 605	357	1.531	0	ç	0	0	ო	16,580	11,836
Finished Petroleum Products	,	7 535	5	822	0	8	0	0	0	8,449	4,805
Finished Motor Gasoline		745	8	930	c	-136	0	0	0	4,742	2,909
Finished Leaded Motor Gasoline		4, 6	ţ «	192	0	138	•	0	0	3,707	1,896
Finished Unleaded Motor Gasoline		380	· c	7		27	0	0	0	69	48
Finished Aviation Gasoline		722	o c	r <u>6</u> 2	0	-173	0	0	0	368	328
Naphtha-Type Jet Fuel		719	c	2	0	478	0	0	0	1,218	865
Kerosene-Type Jet Fuel			0	0	0	0	0	0	0	5	37
Necessary Cost Off		3.774	236	123	0	-337	0	0	0	3,796	3,511
		200	ω	9	0	0	0	0	0	652 730	532
Nankha and Other Oils for Petro. Feed.	0	ო	0	ማ	0	0	0	-	- 6	ī °	0 6
Special Naphthas	۰	0	<u>(S</u>	ო	0	0	0 (0	> •	າ ເ	. 13
1 ihroants	0	ୟ	0	-	0	0	9	-	- (3 5	5 5
Wave	0	13	0	0	0	0	0	-		2 8	7 6
Data and Date		235	0	52	0	0	0	0	9	20	ê i
- Acabatt and Boad Oil		1,065	13	493	0	0	0	0	- (1,570	1,451
	•	516	0	0	•	0	0	0	-	010	> ;
Miscellaneous Products	. n	Z	0	٣	0	0	0	0	<u>©</u>	49	Ñ
	30,000	14 831	1.556	1.121	4,369	-1,437	0	14,601	က	17,394	31,041
local statement of the											

Unaccounted for crude oil is a balancing item.
 = Less than 500 barrels.
 E = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 10. PAD District V, Supply and Disposition of Crude Oil and Petroleum Products, August 1984 (Thousand Barrels)

	 -										
			ű	Chronic							
				Stock				Disb	Disposition	i	
Commodity	Field Produc-	Refinery	1	With- drawal (±)	Unac-	Ż	į.				T. C.
	tion	tion	snodini	or Addi- tion (-)	For Crude Oil1	Receipts	Losses	Refinery Inputs	Exports	Products Supplied	Stocks
Crude Oil (including lease condensate)	E 88,055	-	2 000	7-1 -1-1							
Natural Gas I kniids and I DC.		,	0566	900,	-374	-16,796	24	69,423	4,999	1.935	76 600
Liquefied Petroleum Gases	1,096	1,401	505	-503	0	c	c	1		2	069'67
Pentanes Plus	482		202	-505	00	0	0	553	ž Š	1,498	2,782
Other Liquids	1			u	>	0	0	245	0	239	4,735 47
Other Hydrocarbons and Alcohol	335 335	0	863	813	0	119	c	0.00	ć		•
Unfinished Oils	3	5 C	٥ ;	0	0	0	0	335	5	-503	30,955
Average Stending Components	0) c	2 10	1,068	0	119	٥	2.243	-	2	S.
Awauon Gasoline Blending Components	0	0	8 -	-271	0 (0	0	49	0	-1,044	23,401
Finished Detroising Dead			•	2	5	0	0	12	0	} *	, 336 1
Finished Motor Gasofine	0	75,512	1,638	4.166	c	970	(•	=
Finished Leaded Motor Gasoline	0 (31,663	493	2,400	• •	3,016	0	0	10,239	74,095	53,730
Finished Unleaded Motor Gasoline	> 6	12,318	200	1,400	0	36	5 6	0 (ထ	36,208	19,327
Finished Aviation Gasoline	> (19,345	293	1,000	· c	2 6	5 6	9	œ	14,850	8,681
Naphtha-Type Jet Fuel	5 (242	0	-12	• =	3,	> •	5	0	21,358	10.646
Kerosene-Type Jet Fuel	0 (1,523	0	-119	-	326	0 6	0	0	230	809
Kerosene	٥,	8,319	478	7	· c	953	0	0	0	1,729	1.734
Distillate Fuel Oif	> 6	220	0	48	0	g ⊂	-	٥ (25	9,106	5,758
Residual Fuel Oil	> c	12,260	153	283	0	560	5 C	-	0	172	301
Naphtha and Other Oils for Petro, Feed.	> c	10,189	261	1,212	0	3	-	> c	1,782	11,474	10,992
Special Naphthas	0 0	318	0 ;	59	0	0	•	> 0	6,051	5,601	9,404
Mysicants	· c	3 2	8 6	'	0	0	· c	.	2 °	367	170
Waxes	· c	ř	621 621	60	0	108	, C		" (162	277
Act-1) C	3 3 2 0	m	4	0	0	0	> <	7	280	1.122
Asprair and Hoad Oil	0	280	> 6	-26	0	0	0	· c	2 257	4,00	96 9
Miscolar and a second s	0	3 950	၉ c	237	0	0	0	o c	(5)	C60'1	1,669
Miscellaneous Products	. 0	925	-	o ;	0	0		o c	2	3,094	1,888
Total)	2	N	78	0	0	0	, 0	5 4	3,959	٥
	89,486	76,913	6.936	6.042	32.6	1		•	,	244	441
1 Unaccounted for caude oil is a halaming and				4000	* 77	-13,659	24	72,860	15,442	77.019	163 362
(s) = less than 500 hamsta											202,20

Unaccounted for crude oil is a balancing item.
 (s) = Less than 500 barrels.
 E = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures. See Explanatory Notes on Data Collection and Estimation.

Table 11. Production of Crude Oil (including Lease Condensate) by PAD District and State, for the Most Currently Available Month, June 1984 (Thousand Barrels)

PAD District I Forida New York Pennsylvania Virginia West Virginia West Virginia West Control I				Drodinston	tion.
	Production	Jon	PAD District and State		Daily
PAD District I Florida New York Pennsylvania Virginia West Virginia Mest Virginia	Total	Average		Total	Average
Florida New York Pernsylvania Virginia West Virginia Adjustment 2					
New York Pennsylvania Virginia West Virginia Transol 2	1,129	88	PAD District IV		1
Pennsylvania Virginia West Virginia Adjustment 2	69 H	E2	Colorado	E 2,334	E 78
Virginia West Virginia Adjustment 2 Adjustment 2	E 351	E 12	Montana	2,436	81
West Viginia Adjustment Total DA District I	Э	EO	Utah	E 2,640	€ 88
Adjustment 2	300	° -	Www.ing	E 9.798	E 327
Adjustment 2	300	2 9		702-	7-
Total District	?	() ()		22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	F 26.7
COLD DISILIFOLD	E 1,854	E 62	Total PAD District IV	100'/1 =	L 30/
PAD District II			PAD District V		
Ilfinois	2,352	78	Alaska		
Indiana	447	15	South Alaska	1,793	8
	A 375	273	North Slove	47.970	1,599
Not both	700	5 6	r Alacka2	4.006	134
Nemucky	1 3	1 8		63.769	1 792
Michigan	6/2/2	0 1	LOISI AIGSNA	2	
Missouri	E 18	n L	Arzona	<u>o</u>	-
Nebraska	233	18	California		i i
North Dakota	4,337	145	Central Coastal	5,364	6/1
Ohio	E 1,233	E 41	East Central	21.169	90/
Oklahoma	14 001	467	North	15	+-
One of Delege	× + +	*		6.545	218
Souri Dakota	1 1	9	Total Colifornia	33.093	1.103
lennessee	C/ .	י ני		25	
Adjustment 2	-1,435	7	Nevada	270	ra
Total PAD District II	E 31,293	E 1,043	Adjustment for Arizona, California, and Nevadaz	240	0 600
			Total PAD District V	87,243	2,908
PAD District III					i i
Alahama	1.583	53	United States Total	E 262,290	E 8,/43
Arkansas	E 1.548	E 52			
Cuisiana			1 Includes the following offshore production (thousand barrels):	barrels):	
Code Const	30 806	E 1 328	Alaska: State - 1.571:		
Gull, Codst	20,55	9	Colifornia Endoral 1 507 State - 9 211		
Hest of State	2,081	יי ני	Controlled Tedental Toy of Chate - 4,011,		
Total Louisiana	= 42,507	= 1,41 <i>/</i>	Louisland: Federal - EZ/, 045, State - 4,500,		
Mississippi	2,855	cs.	lexas: regeral - E1,890, State- 196;		
New Mexico					
Northwestern	568	19	2 These adjustments are used to reconcile the national and PADD	and PADD	
	5,856	195	level sums of the State data with the independently estimated	sstimated	
Total New Mexico	6.424	214	U.S. and Alaskan figures shown in the Summary Statistics portion	istics portion	
TOYOU TOYOUT			of this issue and with the PADD level figures published in a	edina	
TO total October 1	2 181	73	previous issue. Final data at the State, PAD District a	and	
TDD District 0.3	2 260	501	national levels will be published without adjustments in the	in the	
יייייייייייייייייייייייייייייייייייייי	2000	200 H	Detroloum Simply Applical		
THE DISTILL OF THE PROPERTY OF	10,017	; ;	(s) — Lose than 500 harrale		
LHRC District 04	2,400	ž č		polipor to popular	
IRRC District 05	200	7;	Note: Total IIIay not equal sum of components upen to independent		
TRRC District 06, excluding East Texas	3,500	<u> </u>	Date and antitaliariating trottes on Data Collection and	Estimation	
TRRC District 07B	2,923	/6 -	- Data not available,		
TRRC District 07C	2,921	76	= Esumated.		
TRRC District 08	19,012	634			
TRRC District 08A	17,671	583			
TRAC District 09	3,303	110			
TRRC District 10	1,832	.			
East Texas	4,085	136			
Total Texas	74,118	2,471			
Adjustment 2	4.136	-138			
Total PAD District III	E 124,899	E 4,163			

Table 12. Natural Gas Processing Plant Production of Petroleum Products by PAD District, August 1984 (Thousand Barrels)

٠.	i i	~"	PAD District			A	PAD District	=									i	
	Airpouring	Coast	chian	Total	Appala- chian	F A	Minn. Wisc.	Okła., Kans.,	Total	Texas	Texas	La. No. 1	No. La.	New	丁,	_	PAD Dist. V	Inited
	Natural Gas Livings				\dashv		Daks.	Mo		Inland	Coast	-		0	Total	Rocky	_	States
	Pentanes Plus	416	495	911	-	1,862	537	7 987	10.20					1			oast	
	Liquefied Petroleum Gases	341	57 438	132 779	۰,	234	135	1,131	1,500		3,061 209	7,858	25 K		36,363	2,682		51,436
	Propane	107	139	246	۰.	28	4	3,142	3,767		2,852	6,491	498	•••	29,782	862 1,820		9,557
	Nomal Butane	2 2	92	4 5	-00	210	25 5	2,485 786	3,340	6,315	1,168	2,147	212	, 86. 1.38.	11,712	1,053	° 99	15,952
	Finished Petroleum Products	} <	i ^c	; (.	168	27	94	835		232	833	<u>4</u> 8		4,597 2,288	419 124		6,487
	Finished Motor Gasoline	0	0	-	o c	0 0	0 0	16	16	27	42	e	α	٥	8			<u> </u>
	Finished Unleaded Motor Gasoline	0 (0	0	0	0	0	00	00	- .	0	0	0	00	8 -	m c	00	107
	Finished Aviation Gasoline	-	٥	0 0	0 0	0 (0	0			00	0 0	0 0	0	-	0	0	
	Kencepe Type Jet Fuel	0	0	٥٥	-	0 0	00	0 (0		0	0	0	0 0	0 (0	0	0
	Kerosene	00	00	0	a	00	0	>	0 0		00	0	0	0	0	0 0	0 0	00
	Distillate Fuel Oil	٥	0	0 (0	0	0	0	0		> c	0 0	0 (0	0	0	0	-
	Special Naphthas	0	> C	- c	٥ (0 (0	0	0		45	- c	> c	0 (0	0	0	0
	Miscellaneous Products	0	0	0	0	> c	О С	0 4	0 (0	0	0	0	0	<u>ئ</u> د	00	0 (45
_	Total Production	,	ţ	1		•	•	•	9	.,	0	ო	φ	80	45	o m	5 C	٥٧
•		0	485 C	911	-	1,862	537	8,000	10,400	20,530	3.103	7 861	704)	\$
	Production represents quantity of natural gas processing	process	ing plant	orthing to	plant output less input to fee						3	30.	į	4,226	36,451	2,685	1,096	51,543

1 Production represents quantity of natural gas processing plant output less input to fractionating facilities. Source: See Explanatory Notes on Data Collection and Estimation.

Table 13. Refinery Input of Crude Oil and Petroleum Products by PAD District, August 1984 (Thousand Barrels, Except Where Noted)

	٥	DAD District			DA	DAD Dietrict II	= +				PAD District III	trict			DAD	DAD	
Commodity	East	Appala- chian	Total	Appala- chian	III, Ky.	Minn, Wisc, Daks.	Okla. Kans.	Total	Texas	Texas Gulf Coast	Gulf Coast		New Mexico	Total	Dist. IV Rocky Mt.	Dist. V West Coast	United
Crude Oil (including lease condensate) 35,358	35,358	စ္ခ	1	1	1		21,177	88,804	16,217	85,628	64,442	5,719	2,189	174,195	14,026	69,423	384,505
Pentanes Plus	8 5	٠ د	3 3		2 6	8 K	2 6	2,797	494	1.285	1625	54	3 4	3,597	351	223	7,485
Liquetied Petroleum Gases	3 0	ų c	<u> </u>		10	30	0	유 :	0	0	24	0	0	57	0	0	. 67
Provano	0	0	0		29	0	0	29	,-	ო	ଞ	0	0	37	0	0	\$
Normal Butane	o 6	27.0	150	4 K	25 E	180 25	318 498	1,304	112 381	573 709	877 658	8 <u>5</u>	32	1,613 1,890	88 83	361 192	3,573 3,741
Other Liquids Other Hydrocarbons and Alcohol	1 4674	0 -	1	0 71	133 -623	0 275	8 4 4 8	153 115	° 9	228 3,644	314 -1,314	0 156	ოო	545 2,449	-118	335 2,243	1,034 9,364
Motor Gasoline Blending Components (net)	8	۰ φ	75	: φ	2	82	419	445	Ŧ	978	1,272	ଷ	47	2,206	23	49	3,006
Aviation Gasoline Blending Components (net)	0	٥	0	0	Ō	0	0	თ	0	-21	75	0	0	ጀ	0	12	75
Total Input to Refineries	40,315	2,719	43,034	1,939	59,223	10,019	22,933	94,114	17,587	94,460	898'99	6,140	2,413	187,468 14,601	14,601	72,860	412,077
Grude Oil Distillation Gross Input (daily average)	1,170 1,404 83.3	87 174 49.9	1,257 1,578 79.6	59 66 88.7	1,834 2,329 78.7	308 304 101.3	691 803 86.0	2,891 3,502 82.6	530 610 86.9	2,846 3,802 74.8	2,092 2,528 82.8	188 295 63.6	71 107 66.5	5,726 7,341 78.0	455 558 81.6	2,249 3,060 73.5	12,578 16,040 78.4
Crude Oil Qualities Sultur Content, Weighted Average (percent) API Gravity, Weighted Average	1.06	.35	1.01	.64	.87 35.75	1.78 30.52	.61 37.44	.90 35.60	.63 37.54	.97 35.06	.80	1.41	.73 39.45	.88 34.81	.92 35.37	1.06	.93
Operable Capacity (dally average) Operating	1,404	471 011 80	1,578 1,412 166	8 8 c	2,329 2,042 287	304 301	803 740 63	3,502 3,148 353	610 554 58	3,802 3,465 337	2,528 2,362 165	295 247 48	107 107 0	7,341 6,736 606	558 530 28	3,060 2,875 186	16,040 14,700 1,339

1 Represents gross input divided by operable capacity. Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

Table 14. Refinery Production of Petroleum Products by PAD District, August 1984 (Thousand Barrels)

•		PAD District			A	PAD District					Į						
Commodity		Appala-	Total	Appala-	Ind.		Okla.	1-	1	Texas	٦	-			PAD	PAD	
	Coast	#1	ig D	#2	II. Ky.		Kans,	Total	Inland	Gulf	_ jng ,	No. La.	New	Total	Pocky	Vest V	United
Liquefied Refinery Gases	1,454	28	1.482	e e	1 76F					Coast		-	MEXICO		Ĭ.	Coast	Orates
For Petrochemical Feedstock Use	448	٥	4	3 0	3 5		888		49	3,062		29	103	6 759	4		
Ethane	1,006	28	1,034	38	1545		346		8 ;	1,386		œ	0	3,548	<u> </u>	196,	12,188
For Petrochemical Feedstock Use	4 (0 (14	0	0		? -		<u>.</u>	1,676		29	103	3,204	126		7,77
For Other Uses	⊃ ;	5	o ;	0	0		0		•	93		0	0	299	٥		695
Propane	1 124	⊃ ღ	4 5	0 (0		0		· c	3 6		-	0	322	0	0	322
For Petrochemical Feedstock Use	370	3 <	7 6	9	1,714		202		202	2383		⊃ ç	- (8	0	0	373
For Other Uses	75.4	° %	2,0	> 6	8 5		25		8	1.074		א כ	χ, c	4,116	145	1,020	8,885
Normal Butane	3.5	9 0	7 25	မ္တ ဇ	1,513		455		168	300		> د	o :	1,375	0	127	2,125
For Petrochemical Feedstock Use	2 6	o c	2 5 6	> 0	33		-109		-123	5		2 4	25	2,741	145	893	6,760
For Other Uses	33.0	•	9 0	> c	o į		0		0	2		0	5	2,042	-17	38	2,654
Isobutane for Petro. Feed. Use	3	0	3	-	35		-109		-153	, æ		1 0	> ;	1,924	Q	5	2,014
Finished Motor Gasoline	18 76B		0,000		13		0		0	3 2		٠ (ር (138	<u>1</u>	371	940
Finished Leaded Motor Gasoline	7,2		19,042		33,181		12,354		9.230	44 168		ָ ק	O į	-13	&		4
Finished Unleaded Motor Gasoline	1200		45.00		12,355		6,254		4.502	15 222		00,0	70,	88,835	7,525		199,505
Finished Aviation Gasoline	2,310		13,548		20,826		6,100		4 728	20,000		826	264	34,003	4,154		78.313
Naphtha-Type Jet Fuel	2 6		15		69		28		5 6	696		1,039	543	54,832	3,371		121.192
Kerosene-Type Jet Fire	3 6		965		611		290		900	7 0		0	0	552	38		776
Kerosene	2/5/1		1,572		3,185		873		2 4	07.		174	372	3,398	522		7 532
Distillate Firel Oil	E :		81		495		163		0 <u>1</u>	2250		7	116	15,130	719		30.415
Residual Fuel Oil	8,100		8,886		11,735		5.917		0.070	786		27	69	1,660	2		2713
Naphtha < 400 Dec For Botto	3,904		3,949		1,379		280		0,0,0	8003		1,843	621	37,889	3.774		22.054
Other Oils > 400 Den For Petro Ford 112	373	۰,	373		902		106		0 1 1	680 c		243		8,765	200		25.035
Special Naphthas	' !		^		194		2		± 5	1,950		17		2,161	0		386
Lubricants	₽ į		4		179		233		3 5	4 905 1		0		6,545	က		6.946
Waxes	2/4	533	267		496		378		<u> </u>	- 6		133		1,122	0		1683
Petroleum Coke	٠ ب	9	75		6		8		3 <	2,30		329		3,365	53		5 132
Marketable	1,238	<u>@</u>	1,256		1,639		656		0 00	D L		22		238	13		437
Catalyst	500	0 !	420		20		446		2 4	4,000		12		4,979	232		12.434
Asphalt and Road Oil	200	20 1	808		919		210		3 2	1 200		43		2,595	95		7.012
Still Gas	4,037	٠.	3,952	4	3,869		890		587	, 50 57 77		\$ 5		2,384	140		5,422
For Petrochemical Feedstock Lise	770.	Ž (1,931		2,229		749		476	. 609		80 f.		3,818	1,065		18,061
For Other Uses	202	٠.	602		-		0			25,		2 0		7,898	516		17,629
Miscellaneous Products	0 0	.	77.		2,228	289			474	120		ָ ק		678	-		1,053
Fuel Use	5 5		200		11	g			† 4	. 17.		<u>ب</u>		7,220	515		16,576
Non-Fuel Use	2 €	8	8		0	0			P C	ָהָ הַ רָּ		.		986	72		1,580
***************************************	200		162		11	ន	69	172	φ	265	<u> </u>	N 6	0 0	5	=	15	362
Total Production	42.472	N 307 C	75 100						,	,		ņ		989	1		1,218
				2,010,2)[/[/[0	10,387 23	23,415 9;	97,529 17	9 677,71	97,676 70	70,002	6,191 2	2,445 19	194,093	14.831	76 913 47	428 KGA
	-2,157	<u></u>	-2,164	-71	-2,494	-368	489	-3 415	100	0 040	9	i					1
1 Represents the arithmetic difference between incut and and	2000										45.154	ņ	732	-6,625	-530	-4,053 -1	-16,487
1 Represents the arithmetic difference between in	put and c	MrtDerf.								- 1		; 		770,0	ď		4,053

1 Represents the arithmetic difference between input and output. Note: See Explanatory Note 2. Source: See Explanatory Notes on Data Collection and Estimation.

Table 15. Percent Refinery Yield of Petroleum Products by PAD District, 1 August 1984

	Уď	PAD District	1		PA	PAD District	=				PAD Dis	District III			PAD	PAD	
Commodity	East	Appala- chian	Total	Appala- chian	ind.	Minn., Wisc.,	Okla., Kans.,	Total	Texas	Texas	e je	No. La.	New	Total	Dist. IV Rocky	Dist. V West	United States
	Coast	#		#5	ν.χ.	Daks.	Мо		Intano	Coast	Coast	Ark.	Mexico		Mt	Coast	
1	46.2	39.1	45.7	52.8	53.5	47.5	51.1	52.2	48.3	43.6	45.6	27.2	40.4	44.2	49.1	42.5	46.0
Finished Aviation Gasoline3	o;	o,	o.	Q	₩;	o,	٦.	۳.	o;	ωį	٣.	o:	o,	ιi	က	ιń	κį
Liquefied Refinery Gases	3.6	1.0	3.5	50	3.2	23	1.8	2.7	ωί	3.4	5,5	1.1	4.7	3.8	1.0	2.0	3.1
Naphtha-Type Jet Fuel	23	οί	23	3.3		1.7	1. 3	<u></u>	6.7	,	တံ	3.0	17.0	6,	3.8	2.1	6.1
Kerosene-Type Jet Fuel	3.9	0	3.7	1.0	5.7	6.3	4.0	ις CC	5.1	7.3	12.1	٠.	5.3	8.6	5.2	11.6	7.7
Kerosene	O,	2,5	εi	5.6	σį	7	œί	œί	۳.	1.0	1.2	ιų	연	Q	0.	ιċ	۲.
Distillate Fuel Oil	20.2	29.1	20.8	22.5	21.0	22.0	27.4	22.7	24.6	20.9	20.2	31.4	28.3	21.4	27.1	17.1	21.1
Residual Fuel Oil	8.6	1.7	9.2	4.1	2.5	21	1.3	22	4.7	5.7	4.2	4.1	₹.	2.0	1.4	14.2	6.4
Naphtha < 400 Deg. F. Petro. Feed. Use	αί	0	တု	0	<u>.:</u>	0	ιų	αż	۲.	2.2	۳.	ω	0	1.2	0	ςį	o,
Other Oils > 400 Deg. F. Petro. Feed. Use	o:	0	o;	0	ιċ	0	0	Ŋ	ωį	4.8	3.4	0	0	3.7	0.	ω	1.8
Special Naphthas	o.	,	Τ.	0	w	0	:	пĴ	œ	αó	ယ	2.3	0	9	0.	Ψ.	4,
Lubricants	۲.	10.9	. .	0	οį	0	1.7	 0:	٠.	2.5	77	6.1	5.3	1.9	κi	4	£.
Waxes	ö	28	κi	0	o;	0	₹.	ó	۳.	- :	۲.	1.0	0	Τ.	۳.	Ξ.	۳.
Petroleum Coke		۲.	53	7.5	5.9	2.8	3.0	29	1.	3.0	3.1	1.3	гú	2.8	1.7	4.7	3.2
Asphalt and Road Oil	9.6	4.3	9.2	7.9	6.9	16.0	4.1	7.2	3.6	œί	23	18.9	0.	2.2	7.7	3.9	4.6
Still Gas	4.6	3.9	4,5	3.2	4.0	3.0	3.5	3.7	29	5.2	4.1	2.9	5.6	4.5	3.7	5.5	4.5
Miscellaneous Products	ωi	22	ιċ	κį	۳,	ςį	ų	cį	o;	ωį	φį	.7	0	9	4.	¢,	4.
Processing Gain(-) or Loss(+)4	-5.4	٠ د	-5.1	-3.9	4.	9.9	-2.2	-3.8	1.2	-3.6	-5.0	6	-1.5	-3.8	-1.7	-5.7	4 2

Based on crude oil input and net reruns of unfinished oils.
 Based on total finished motor gasoline output plus net output of motor gasoline blending components, minus input of natural gas plant liquids, other hydrocarbons and alcohol.
 Based on finished aviation gasoline output plus net output of aviation gasoline blending components.
 Represents the difference between Input and Production.
 Note: Total may not equal sum of components due to independent rounding.
 Note: See Explanatory 2.
 Source: See Explanatory Notes on Data Collection and Estimation.

Table 16. Imports of Crude Oil and Petroleum Products by PAD District, August 1984 (Thousand Barrels)

Crude Oil (Including lease condensate) 1 2	13,735 3,345 0,3,345 1,624 1,189 320 213 464	52,462	21	>	Total
S 31 31 31 31 31 31 31 31 31 31 31 31 31	13,735 3,345 0 3,345 1,624 1,189 320 213 464	52,462			3
S 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3,345 0 0 3,345 1,624 1,189 320 213		805	0006	
S S S S S S S S S S S S S S S S S S S	3,345 0 0 3,345 1,624 1,189 320 213 213		}	0000	100,552
S	2,345 1,624 1,189 320 213 213	879	394	202	į
3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3,245 1,1624 1,189 320 213	866	2	3	870,0
S S S S S S S S S S S S S S S S S S S	1,624 1,189 320 2,13 464	14	310	2 6	418.
S 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1,189 320 213 464	c	2	coc	4,765
31 31 32 32 33 34 34 34 34 34 34 34 34 34 34 34 34	213 213 464	7) 	0	1,624
S S S S S S S S S S S S S S S S S S S	213	= '	151	43	1.831
31 33 34 35 35 35 35 35 35 35 35 35 35 35 35 35	5 7 7 5	N ·	96	277	786
S	464		2	185	224
S S	404			}	3
S		4,275	o	698	
S	464	3,953		200	989,
S 3	0	355	.	21	2,360
	0	,	.	851	2,526
		•	9	0	
	C	1			•
	808	6,559	357	1.638	44 444
	121	845	100	400	4
	102	230		564	7,529
	5	212	†	200	3,010
	2 0	200	ω	293	4.519
	> (3	0	0	
	5	223	0	c	3
	0	0	0	436	9 6
	0	0		÷	062,2
	C	. c		o	0
		> (0	478	2.290
	0 00	5	0	0	247
	393	71	236	153	0 4 1
	0	0	0		3
O3	393	7.1	236	7,50	O !
	12	2874	3	3	8,155
s Bunkerss	ic	100	0	261	17,729
)	0	0	0	•
Naphtha < 400 Dea: for Petro. Feed 11se	12	2,874	ω	261	17 720
	4	1,263	0		200
***************************************	0	0	·c		002,1
142	172	1.160) (4)	0 8	0
***************************************	on	CR	Č	8 !	1,543
WAXES	· u	1 4	> •	421	331
	0	Z (D	က	35
Miscellaneous Products	n i	28	13	S.	076
	32	8	0	۰ (200
Total imports				ı	007
65,110	18,353	64.175	1 556	000	

1 Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry. 2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.

(s) = Less than 500 barrels.

Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

Table 17. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January - August 1984 (Thousand Barrels)

			Detroloum Administration for Defence Districts	o for Defence Districts		
			resoletini Administrato	i ioi Deterise Cisuca		
Commodity	-	=	Ш	2	>	Total
Crude Oil (including lease condensate) ^{1 2}	215,753	124,383	431,693	7,644	47,274	826,747
	970	37 100	4 560	3 927	4.081	57.806
Natural Gas Liquids	7.376	; ;	1.597	855	510	10,338
Constant Details and Details a	3,653	34.198	2.964	3,072	3,571	47,468
Ethan		19.604	0	0	0	19,605
Droppe	2.201	9,248	1,345	1,561	542	14,897
Normal Britane	877	3,207	1,029	206	1,817	7,837
	584	2,138	290	604	1,212	5,129
Other Limids 1	25.438	2,924	36,880	0	9,937	75,179
Unfinished Oils 1	15,427	2,849	34,794	0	4,270	57,339
Motor Gasoline Blending Components	10,011	75	2,086	0	5,662	17,834
Aviation Gasoline Blending Components	0	0	0	0	æ	٥
Finished Petroleim Products	292,784	8,763	42,119	1,667	12,386	357,719
Finished Mofor Gasoline	58,246	842	5,320	510	4,509	69,428
Finished Leaded Motor Gasoline	26,398	541	3,030	485	1,435	31,889
Finished Unleaded Motor Gasoline	31,848	302	2,290	25	3,074	37,539
Finished Aviation Gasoline	526	0	0	8	_	535
Naphtha-Type Jet Fuel	2,286	0	1,888	0	(4,182
Kerosene-Type Jet Fuel	11,005	0	0	o (1,182	72,18/
Bonded Aircraft Fuel	0	0	0	o (0 %	D 407
Other	11,005	0	0	- > (7,182	1 073
Kerosene	1,966	0	10	0 70	3,466	5,572
Distillate Fuel Oil	56,388	2,033	1,028	810,1	00 C	0
Bonded Ships Bunkers	0	0	0 00,	1016	1 45.0	61 931
Other	56.388	2,033	1,028	20,7	3,368	177 390
Residual Fuel Oil	155,038	8/4'1	867/1	3	0	0
Bonded Ships Bunkers	0 00	⊃ o	17.208	108	3.368	177,390
	25,038	0/0,1	6810	0	0	7,628
Naphtha < 400 Deg. for Petro. Feed. Use	2	<u>.</u>	200	. 0	0	0
Other Oils > 400 Deg. for Petro. Feed. Use	2 425	3 665	7.774	ო	1,123	14,989
Special Napriuras	1.501	98	279	-	611	2,478
Whose	104	. 64	155	0	25	326
Asobalt and Road Oil	1,422	75	100	24	<u>අ</u>	1,680
Miscellaneous Products	1,162	338	1,461	8	8	766'7
Total Imports	545,014	170,268	515,252	13,237	73,679	1,317,451

¹ Grude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.

(s) = Less than 500 barnels.

Note: Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

Table 18. Imports of Crude Oil and Petroleum Products by Source and PAD District, August 1984 (Thousand Barrels)

Source	Crude Oil 1	PG I'b	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distit. Fuel Oil	Resid. Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
							All PAD Districts	Districts						
Arab OPEC Algeria	6,529	¥	0	0	0	0	0	1.474	1.752	663	2.057	6.000	12.529	404
had	0	0	0	0	0	0	φ.	0	0	0	0	0	0	0
Kuwait	. 648	0 0	0 0	0 0	0 0	00	00	0 0	0 0	0	0 6	0 (848	22.5
Saudi Arabia		8	0	0	0	0	0	0	0	0	0	188	13,564	438
United Arab Emirates	2,255	242	00	00	00	00	00	0	1 752	0 89	292	292 6 481	2,548	82
						•	•	:	<u>}</u>	}	ì	5		3
Other OPEC	908	•	•	c	c	c	c	•	i	•	•	i	0	ì
Gabon	2,204	00	0	0	0	0	0	- •	, ,	- -	- c	က က	2,340	5 E
Indonesia	1777	0	0	0	90	88	0	8	755	0	0	936	8,713	281
Nigeria	3,360	00	0 0	0 ;	0 0	0 6	0 6	0	163	0	0	163	3,523	114
Subtotal Other OPEC	21,680	0	929	12	1,628	1,355	00	2,334	3,224	00	533 533	8,552 10,184	15,085 31,864	48/ 1,028
Other														
Angola	3,439	0	0	0	0	0	0	0	241	0	0	241	3,680	119
Australia		331	0 0	0 0	წ ,	Ξ,	0	4	115	0	0	533	533	17
Brazil		-	\$ 0 0	> C	0.00	> C	0 0	720	546	۽ م	o 	7.75	1,754	57
Canada	9.225	4.059	473	0	840	200	۷ د	974	040 724	3, 25 2, 25	£	7,043	1,043	, y
Congo	50.	0	0	0	0	3 0	۰ ۰	t 0	5 2	g C	2	, 5 5 5	1,305	
Egypt	351	0	0	0	0	0	0	0	0	0	0	9	35.	; =
France		0	0	0	197	0	0	0	0	0	(s)	198	198	9
Mexico	0 47.75	°,	⊃ <u>Ş</u>	0 0	0 0	0 0	0	۰ ،	찬 년	01	٥ ;	133	131	♥ ;
Netherlands	90	ŧ 0	, ,	0	270	>	-	416	ξ) C	~ ~	ος. •	1,868	19,237	621
Netherlands Antilles	•	0	823	0	355	198	0	270	4,541	0	146	6.363	6.363	202
Norway	2,653	0	0	o _r	0	0	0	0	0	0	0	0	2,653	86
Ordan		0 (0 (0	o į	0		0	0	0	0	0	260	\$
People's Republic of Unina	919	o c	0 0	1,016	174	o ç	0 0	0 0	0 0	0 0	ဓ္က	<u>1,2</u>	1,837	20
Puerto Rico	0	0	° සූ	• •	236	3 6	o c	00	o c	407	174	3 6	5 5 5	- 8
Romania	0	0	0	1,180	246	0	0	0	0	0	763	2,189	2,189	7
Spain	0	0 (0	0	500	0	0	0	0	10	Ξ	ĸ	221	7
Timesa and 100ago	2,824	-	-	> 0	9 0	•	0 0	22.	0 6	0 0	0 0	ξ, °	3,044	86
United Kingdom	11.699	108	•	0	242	o c	o c	> C	o C	o c) (g)	326	12 025	38 0
Virgin Islands	0	0	265	0	867	657	241	1.114	4.081	96	0	7.319	7.319	236
Zaire	805	٥	0	0	0	0	0	0	0	0	0	0	802	8
Other Western	,	•	(;	į	,								i
Hemisphere	149	o ;	0 ;	e ;	23	0	0	0	ත	5 6	18	323	472	15
Other Eastern Hemisphere Subtotal Other	3,777	(s) 4,522	911 4,432	172 2,408	896 5,902	85 1,580	0 247	528 4,284	1,693 12,753	14 880	101 1.906	4,400 38,914	8,177 93.480	264 3.015
					•	•	ł	Ĺ	į	i i				! !
Total Imports	100,552	4,765	5,360	2,526	7,529	2,936	247	8,155	17,729	1,543	4,788	55,578	156,131	5,036
							PAD District	trict I						
Arab OPEC	8	ì	•	•	•	•	•	!						
Algena Sandi Arabia	L 60	¥ £	9	0 0	o c	a c	0 0	1,474	1,432	00	822	3,185	4,819	155
WANTED TO LANGE AVERAGE CONSTRUCTION	1000	3	,	>	>	2	>	>	2	5	٥	χ. Σ.	4,179	135

Table 18. Imports of Crude Oil and Petroleum Products by Source and PAD District, August 1984 (Thousand Barrels) (continued)

																																			•			
Total (Daily Average)		290	!	≥ ₹	3 5	5	286	395	ç	5 6	ာဇ္ဇ	3 4	86	9	∓'	۰	131	8	196	73	នួន	3 5	7	37	194	216	2	ω ;	5 7	7,410	2,100		40	₽	64	1	8 8	,
Total Petro- leum	1	0 8,998	i	533	- 202 203 35	478	8,879	12,230	6	5 253	1 107	1.360	3,025	201	351)6. F	4.051	626	6,062	2,264	614	2 189	211	1,141	6,001	6,710 555	?	240	2,816	43,862	65,110		1,235	597	1,832	317	937	
Frod- ucts		0 3,373	i	, 233	-	o c	6,431	6,964		241	1 107	1360	1,976	23	o į	6	320	626	6,062	0	0 ;	2 189	211	221	326	6,710	>	240	2,230	25,153	35,490		c	0	0	c	00	,
Other Prod- ucts 2		225	1	0 0	> C	o c	233	533	•	0 0	.	(<u>(</u>	293	0	0	જ જ	- ₍₂	(8)	115	0	0 ;	753	₹ =	0	(S)	00	•	0	12	1,387	2,145		c	0	0	c	000	,
Special Naphthas		00	,	0	> c	•	0	0	•	0 0	0 0	o c	° 83	0	0	0 1	-	• •	0	0	0	9	0	0	0	00	>	0	4	142	142		c	0	0	c	000	>
Resid. Fuel		0 1,432		533	5 C	> C	1,461	1,994	:	24	<u> </u>	9 7	498	8	0	0	131	o c	4,541	0	0	0 0	0	0	0	3,567	>	6	769	11,148	14,574		•	0	0	c	•	>
Distil. Fuel Oii	trict 1	0 1,474		0	0 0	5 C	2,334	2,334		0 (0 6	oca Oca	319	0	0	0	00	416	272	0	0	0 0	-	23.	0	1,114	>	0	8	3,494	7,303	strict II	c	0	0	c	000	5
Kero- sene	PAD District 1	00		0	0 0	> c	0	0		۰ ۵	0 0	-	۸ د	. 0	0	0	0 0	o c	0	0	0	0	-	0	0	241	0	0	0	247	247	PAD District II	٠	0	0	c	000	>
Fuel Fuel		00		0	0	-	1.181	1,18		0	0 (>	o ¢	0	0	0	00	,	198	0	0	8	>	0	0	657	0	0	0	1,054	2,235			0	0	•	000	•
Finished Motor Gasoline		00		0	0	-	200	922		0	0 (0 1	100	0	0	197	0 0	707	355	0	0	836	8 6	3 0	217	867	0	23	729	5,048	5,969	į		0 0	0	c	000	>
Gasoline Blending Compo- nents		00		0	0 (0 0	5 6	0		0	0	0 (> c	0	0	0	0	-	-	0	0	0	1,180	-	0	0	0	0	172	1,352	1,352		,	o c	0	(904	>
Unfin- ished E		00		0	0	0 (-	0		0	0	0 (> •	r c	0	0	0 (> 6	, K	3	0	39	0 0	-	0	265	0	0	41	931	931		,	•	0	•	50	>
- PG		242		0	0	0 (0 0	00		0	0	0	0 0	} <	0	0	0 (5 (-	0	0	0	0 0	-	108	0	0	0	છ	348	290	00	,	o c	0	,	00	0
Orde -		5,625		0	1,505	835	478	5,266		2,982	0	0	0 0	-	351	0	0	3,732	> C	2,264	614	0	0 0	ء د	5.676	0	222	0	586	18,729	29,620			7,230	1,832	!	937	1,254
Source		United Arab Emirates Subtotal Arab OPEC	Other OPEC	Ecuador	Gabon	Indonesia	Nigeria	Subtotal Other OPEC	Other	Angola	Australia	Bahamas	Brazil	Carada	Egypt	France	Ghana	Mexico	Netherlands	Norway	People's Republic of China	Puerto Rico	Romania	Spain	Initiad and Tobago	Virgin Islands	Zaire	Other Western Hemisphere	Other Eastern Hemisphere	Subtotal Other	Total Imports		Arab OPEC	Algeria	Subtotal Arab OPEC	Other OPEC	Ecuador	Subtotal Other OPEC

Table 18. Imports of Crude Oil and Petroleum Products by Source and PAD District, August 1984 (Thousand Barrels) (continued)

Total (Daily Average)	1		380	٥	<u>g</u> °	- C	· (C	0	(3)	492 592]			200	, <u>c</u>	8	303	8	2		48	æ	132	8 8	189	;	Ļ	Ö e	- ¢	<u>.</u> σ	· -	35	(s)	382	(s)	80		13	18	9	7	o 0	>
Total Petro- Heum Ay	-		11,791	0 70	9,50	• •	194	0	<u>(S)</u>	15,266 18,353	ł	į	32.7 5	6,4,0 C	, 8	1,497	9,385	1,951	9,956		1,489	689	4,083	2,108	5,848 14,227	•	ů,	9	2 6 4	580	40	1,100	(s)	1,831	ø	263		389	560	198	223	201	>
Total Prod- ucts	_		4,618	0 0) C	0	٥	0	(s)	4,618 4,618			2696	2		0		282			0	0	662	22 25	2.799		c	.	558	289					80	263		0	0	195	223	. 29.	>
Other Prod- ucts 2			5.	0 0	> C	0	0	0	(s)	5 6			1 839	30	0	0	0	295	4,124		0	o .	0 0	0	0		c	-		0	0	0	<u>®</u>	ଷ	က	0		0	0	8	0	0 0	>
Special Naphthas			172	5 C	0	0	0	0	o <u>t</u>	172			8	0	٥	0	0	0 2	200		0	0 (> •	> <	0		c	o c	c	28	6	0	0	7	₹ .	0		0	0	0	0 7	5)
Resid.			<u>N</u>	0	0	0	0	0	о č	7 2			320	0	0	0	0 0	33 0	950		0 (۵ ز	ğ ş	3 5	1,137		c	0	0	-	0	0	0	ୡ	0	0		0	0	0	0 0	> c	,
O'Still.	bict II		25 C	0	٥	0	0	0	363	393	 		o	0	0		0 0	> c	•		O (> c	> <	0	. 0		c	•	70	o	0	0	0	 :	0	0		0	0	0 (5 0	.	,
Kero-	PAD District II	•	> c	0	0	0	0	a (- 0		PAD District III		0	0	0	0	0 0	-	•		0 0	> <	,	0	0		0	٥	0	0	0	0	ο .	φ.	5 (0		o ·	0 (5 (.	- C	,
Jet Tuek		•	-	0	0	0	0	0 0	0	0			0	0	0	0 1	٥ د	- c	,	•	0 0	.	> C	• 0	0		0	0	0	0	0	0	0 (-	-	>		0	0 (٥ و	3 6	• •	
Finished Motor Gasoline			2 0	0	0	0	0 (-	5 2	121			0	o	0	-	-	•	,	•	-	.	• •	616	616		0	0	0	230	0	0 (o (5	> c	>		0 (ə (5 6	, c	0	
Gasoline Blending Compo- nents		c	0	0	0	0 (0	- c	0	0			0	0	0 (> 0	o c	• •		•	> c	0 0	0	118	118		0	0	0	0	0 (0	5 (-	> C	> ,		0 (בי י	9	o c	0	
Unfin- ished Oils		ASA	0	Φ.	0,0	> (> 0	> 0	, <u>\$</u>	464	8		0	0	-	- c	• •	0		c	> <	0	0	929	929		0	٥	488	0	\$	5 0	2 5	3.0	3,0	202		0 0	> 0	.	o c	0	
8		3.345	0	0	0 (> c	o c	, c	3,345	3,345			0	0 0	-	-	, C	0		c	o	0	0	0	0		0	0	0	0 (5 6	-	5	<u>†</u> c	o c	•	,	0 0	> 0	o c	0	0	
Oit 1	00	7.173	0	3,281	> 0	2		0	10,648	13,735			3,660	0 9	9 6	200	1,658	16,849		1 480	689	3,421	1,945	3,873	11,428		456	0	5	0 0	Ç Ç	3 0	10.256	2	· c	,	ő	S 29	200	4 C	0 0	. 0	
Source		Other Canada	France	Mexico Nethodende	Noneav	Trinidad and Tohano	United Kingdom	Other Eastern Hemisphere	Subtotal Other	Total imports		Arab OPEC	Algeria	Krast	1	Saudi Arabia	United Arab Emirates	Subtotal Arab OPEC	Other OBEC	Equador	Gabon	Indonesia	Nigeria	Venezuela	Subfotal Other OPEC	Other	Angola	Australia	Dellames	Canada	Conto	France	*************	SE	Netherlands Antilles		Other	Norway Oman	People's Beautific of China	Pen.	Puerto Rico		

Table 18. Imports of Crude Oil and Petroleum Products by Source and PAD District, August 1984 (Thousand Barrels) (continued)

Source	Sade 1	9d1	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Disti. O Lee	Resid. Puel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
							PAD D	PAD District III						İ
		١	٩	c	6		-	6	0	9	0	2	2	<u>(8)</u>
Spain	1 709	- 0	0	0	\$	0	0	0	0	0	0	0	1,709	47
Timisia	30	0	0	0	0	0	0	0	0	0		o ;	0	0
United Kingdom	6,024	0	0	0	0	0	0 (0 (٥ ;	ဝ မ	(S)	(s)	6,024	194
Virgin Islands	0	0	0	0	0	0	0	0 (513	oc c	> 6	2 6	2 6	<u>o</u> a
Zaire	249	٥.	0	0	0	0	0	0	0	0	5	-	243	0
Other Western	149	c	¢	68	0	0	0	0	0	58	8	8	232	7
Other Eastern Hemisphere	3 4	6	870	90	0	0	0	0	883	10	4	1,807	4,998	161
Subtotal Other	24,185	4	3,024	204	230	223	0	7	1,417	497	126	5,806	29,992	196
Total Imports	52,462	14	3,953	322	846	223	0	7	2,874	1,160	2,250	11,713	64,175	2,070
							PAD D	PAD District IV						
Other	 	:							•		Ę	ļ	933	Ğ
Canada	805	310	0	0	<u>6</u>	00	00	236	ω c	ଚ ହ) C	0	000	g 0
Other Eastern Hemisphere	0 802	310	00	90	- 5	0	•	88	9 80	œ e	97	751	1,556	S
Total Importe	805	310	C		90	0	0	236	60	(s)	97	751	1,556	20
TOTAL HILIPOTOS	3	?	•		}									
							PAD [PAD District V	ļ				i	
Other OPEC						;		8	3	c	<	376	3 795	129
Indonesia	3,521	0 (0 0		8	, 18 18	00	3 -	\$, ⊂	9 0	0	147	358	5
Venezuela	3,732	00	0	0	8	175		8,	8	0	0	421	4,153	134
Other		;	•		Ç	Ţ		7	÷.		0	533	533	17
Australia	0		> C		g c	= =			20		0	0	0	0
Brazil	- <u>8</u>	16.	o un		83	208			9		-		655	۶,
Mexico	0	10	0	•	0	0		Ē	נה כ		3 6	4 K	3 4	۰ -
Netherlands Antilles	0	0	~		177	o c	.	-		0	, 0	-	1,025	. B
People's Republic of China		-	.	3	0	. 0			0		S.		20	7
Puerto Alco		0			0	0			0		0	ဝ ဋ	၀ ပု	> -
Virgin Islands	•	0	0		0	0			0		5		\$	-
Other Eastern Hemisphere	198	(s) 505	0 21	851	168 403	304	00	90 24	42 167	0 88	45 186	363 2,586	363 2,784	98
			•		9	077	•	163	261	ě	186	3 006	6.936	224
Total Imports	3,930	505	12	168	483	4,0			3	3		- 1		
				10000	O'CLUCO									

Includes crude oil imported for storage in the Strategic Petroleum Reserve.
 Includes aviation gasoline, aviation blending components, waxes, asphalt, lubricants, pentanes plus, naphthas less than 400 degrees F, other oils greater than 400 degrees F and miscellaneous products.
 ess than 500 barrels or less than 500 barrels per day.
 'otal may not equal sum of components due to independent rounding.
 xplanatory Notes on Data Collection and Estimation.

rable 19. Year-to-Date Imports Of Crude Oil and Petroleum Products by Source and PAD District, January - August 1984 (Thousand Barrels)

March OPEC	Source	Crude Oil 1	- LPG	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel Oil	Resid. Fuel	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro-	Total (Daily Average)
Column	Arab OPEC							All PAD	Districts						
with fine states 5,17.8 0	Algeria	- 48,700	235	598	0	434	497		000						
Marche M	Kuwait	2,179	00	0	0	0) O		005,4	15,232	2,967	4	31,541	80.240	329
Mode Applies 53.94 73.9 1,119 9 0 1,013 0 0 1,013 0 0 1,013 0 0 1,013 0 0 1,013 0 0 1,013 0	Oatar	1,497	9 0	00	0 0	00	0 (0	3,585	0	90	3 685	2,179	o t
## Comparison 1,230	Saudi Arabia	. 89,346	793	1,119	0	> c	00		0	0	D	0	0	1.497	g (c
## Coperation	٠ <u>.</u>	19,774	0 1,027	1,049 2,766	993 993	434	22. 548		0 0 0	1,013	00	(s) 1,879	2,925 5,887	92,271 25,661	378 105
box	Other OPEC						}	•	0000	9/9/12	2,967	8,326	44,037	210,285	862
Particle Ecuador	12,330	0	C	c	c	•	•								
1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	Gabon	14,007	•	0	0	- 0	0 0	0 0	0 0	2,403	0	٥	2,403	14,732	99
Particle lidonesia	68,572	1,356	2,035	0	1,156	167	0	331	246 5335	9	0 9	306	14,314	8 8	
control of the control of th	Nigeria	55.250	-	0 0	0 (0	0	0	0	0	66	η c	11,149	79,721	327
1,000 1,00	Venezuela	60.915	9 0	1.382	0 6	0 ;	0	0	53	253	0	248	2 136	2,077	αο <u>ξ</u>
Transia	Subtotal Other OPEC	213,155	1,356	7,773	79 06 7	15,443	4,021 4,188	00	14,296 14,680	27,638 35,875	824	1,305	66,560	127,475	522
1978 1978	Other										Į,	C20'1	62,553	295,709	1,212
15 15 15 15 15 15 15 15	Angola	21,419	0	0	0	0	c	c	c	Ġ	(,			
wise 280 0 6,719 0 6,549 0		3,572	427	0	0	440	<u>,</u>	• •	. ž	1 493	3 C	0 2	808	22,228	91
10 10 10 10 10 10 10 10	! !	- 5 5	-	6,219	0 (0	623	69	4,255	5,295	>	2352	2,807	6,379	81
regit 0 7,167 260 2 13,094 13,096 gold 0 0 7,167 260 2 13,094 13,096 gold 0 0 0 0 0 0 0 0 0 gold 0,6806 42,347 2,688 75 4,279 216 43 6,186 6,436 4,273 3,256 1,713 15,264 pt 2,644 0 0 0 0 0 0 1,506 0 0 1,506 0 0 1,506 0 0 1,506 0 0 1,506 0	Brazil	3	o c	> c	0 0	0 0	۰.	0	0	0	0	70	n (C	9,049	<u> </u>
10	Brunei	0	-	0	> C	5,643	0 0	0 (0	7,167	260	24	13,094	13.096	- V
90 60<	Canada	80,808	42,347	2,628	75	4.279	0 15	> ç	0 6	0 ;	0	0	0	0	0
Correspondence Corresp	Congo	8,942	0 (0	0	0	0	? 0	0,182 0	1,506	4,273	3,255	71,733	152,546	625
ma (a) (b) (c)	France	4			0	0	0	0	0	0	> C	> c	ار م	10,448	£3
rita 0 0 0 0 0 0 250 <	Ghana	0			3 (573	0		0	299		5	885	40,4 - 88,4 - 88,4	= `
aysta 0 0 1,882 0 0 1,882 0 0 1,882 0 0 1,882 0 0 1,882 1,982 0 0 1,882 1,882 1,882 1,882 1,882 1,882 1,882 1,982 0 0 409 </td <td>Liberia</td> <td>0</td> <td>0</td> <td>0</td> <td>-</td> <td>- -</td> <td>0 0</td> <td>0 0</td> <td>0 (</td> <td>250</td> <td>0</td> <td>0</td> <td>250</td> <td>S 63</td> <td>+ +</td>	Liberia	0	0	0	-	- -	0 0	0 0	0 (250	0	0	250	S 63	+ +
retrands Artilles	į	0 [0	125	0	158	۸ د	0	ے چ	1,882	0 0	0 (1,882	1,882	80
regrands Antilles 1,75 1,78 1,418 340 769 1,752 1,753 0 0 0 0 0 1,753 0 0 0 1,753 0 0 1,753 0 0 1,753 0 0 0 1,753 0	*************************	1 045	1,629	8,255	3,511	691	244	0	1,096	1.055	300	0 643	469	409	8
vay 27,423 (s) 0,180 933 0 2,652 31,846 0 301 50,818<	Netherlands Antilles	9 0	(e)	2 477 C	3/8	5,837	196	0	6,858	1,418	340	769	15.797	16 841	3 8
1, 2, 109	Norway	27,423	(S)		0 0	91.0	933	0 0	2,652	31,846	0	301	50,818	50,818	88
Tree s republic of critical 2,958	Papelo's Deputies of Other	2,109	φ.	0	0	0	, 0	-	995	7 20 0	0 6	0 (817	28,240	116
to Rico 223 0 4.597 0 5,376 5,600 ania 0 0 1,248 0 2,951 453 0 1,011 0 3,045 1,462 10,171 10,171 0 5,376 5,600 ania 0 0 252 4,074 1,571 1,016 0 0 0 3,045 1,462 10,171	Peru	826.7	0	494	5,719	773	0	0	0	503, C	347	⊃ წ	1,239	3,347	4
ania — — — — — — — — — — — — — — — — — — —	Puerto Rico	† C	> c	75,	0 (0	223	0	0	4,597	5	3 ⊂	975 7	10,324	24 8
n 0 0 218 1,071 1,071 0 0 389 423 3,634 10,343 10,343 3dad and Tobago 19,180 0 13 1,67 1,016 0 0 1,23 782 10 29 3,344 3,444 3,444 4 6 0	Romania	0	- -	- 5 6	0 70 7	2,951	453	0	1,011	0	3,045	1,462	10,171	10 171	3 5
dad and Tobago 19,180 0 123 782 10 29 3,344 3,344 sia 13 0 0 0 0 221 1,731 7 16 1,988 21,168 ed Kingdom 81,981 526 737 370 2,618 325 0<	Spain	0	0	218	† C	1,5/1	0 6	0 0	0	389	423	3,634	10,343	10.343	ž 3
ad Kingdom	Trinidad and Tobago	19,180	0	5	• •	<u>.</u>	<u>0</u> C	-	<u>8</u> 23	28.5	은 1	83	3,344	3,344	i 4
1 Islands	United Kingdom	4 6	0	0	0	0	• •	0	ÿc	اري د	~ 0	9 0	1,988	21,168	87
r Western 721 127 1,699 39 231 0 6 361 6,852 229 162 975 10.00 0 0 7,537	Virgin Islands	188,18	526	737	370	2,618	325	0	163	655	156	714	0	4 6	(S)
r Western misphere 721 127 1,699 39 231 0 6 361 6,852 229 162 9705 10.00	Zaire	7.537	-	, , ,	-	11,983	5,236	1,794	12,961	32,913	402	339	74.401	58,245 74.401	362
721 127 1,699 39 231 0 6 361 6,852 229 162 9705 10.007	Other		,			5	Ö	0	0	0	0	0	0	7,537	3.5
721 127 1,699 39 231 0 6 361 6,852 229 162 9705 10.207	Other western Hemisphere	200	Ş												
		(2)	127	1,699	e e	23	0	ω	361	6.852	88	462	202	10.403	9

Table 19. Year-to-Date Imports Of Crude Oil and Petroleum Products by Source and PAD District, January - August 1984 (Thousand Barrels) (continued)

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Source	Crude Oil 1	PG.	Unfinished Shed	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel Oil	Resid. Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
		1					All PAD	Districts						
Other Eastern Hemisphere Subtotal Other	27,711	45,085	7,135	1,460	8,448 53,551	1,601	60	3,517 41,951	11,128	1,407 11,198	2,073 16,026	36,832 364,108	64,543 811,457	265 3,326
Total Imports	826,747	47,468	57,339	17,834	69,428	16,369	1,972	61,931	177,390	14,989	25,977	490,698	1,317,451	5,399
							PAD District 1	strict 1						
Arab OPEC	12,529	235	٥	٥	434	327	0	5,250	14,236	218	1,495	22,195	34,724	142
Kuwait	253	0 202	0 R67	00	00	0 0	00	0 0	00	0 ¢	0	1,660	253	1 87
United Arab Emirates	436 32,885	1,027	867	993 993	434	327	000	5,250	434 14,670	218	2,833	2,765 26,619	3,201 59,504	244
Other OPEC										,	,			;
Ecuador	302	00	00	00	00	00	00	00	2,403	<u>ت</u> و	0 0	2,403	2,705	= 8
Indonesia	16.730	0	228	0	0		0	0	1.389	9 0	0	1,617	18,347	3 12
Nigeria	15,816	0	0	Φ	0	0	0	20	8	0	0	140	15,956	92
VenezuelaSubtotal Other OPEC	17,713 55,019	00	0 228	0 0	11,751 11,751	3,618 3,618	0	14,296 14,346	25,829 29,957	o ₀	1,138 1,138	56,632 61,098	74,345 116,117	305 476
Other														
Angola	13,253	0	0	0	0	0	0	0	808	0	0	809	14,062	28
Australia	0	0	0	0	0	0	٥	0	746	0	0 (746	746	ო ქ
Bahamas	0 (0 6	481	0 0	0 796 7	629	g c	908,8	0,000 0 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0 0,000 0	-) (e)	11,039	11 162	3 4
Capada	2 8 724	1 982	> 4	> C	766.1	0	λ 5 6	4.968	4.672	161	1.614	15,481	24,206	8
Congo	3,791	0	0	0	0	0	0	0	1,506	0 (1,506	5,297	ង្គ
Egypt	1.967		0	0	0 5	0 0	O C	-	- 6	>	> ₩	973 1	, 67.8	0 4
France	-	(S)	> C	o c	? ñ	o c	> <	- -	250	(e)	- 0	250	22	-
Liberia	• •	0	•	0	0	0	0	0	1,882	0	0	1,882	1,882	80
Mexico	22,933	0	0	3,216	252	215	0	882	625	291	289	5,772	28,705	118
Netherlands	← c	<u>(</u>	7,170	219	5,837	196	0 0	5,838 2,93,8	31,654	ရှင	2 5	47.675	47.675	195
Nemericanos Annues	18.580			9 0	90	8	0	366	0	0	0	456	19,036	78
	893	0	0	0	0	0	0	0	585	0	0	585	1,578	9
People's Republic of China	2,596	0	0	0	0	0	0	0	0	0	(S)	(s)	2,596	# :
Pen	~ (0 6	0 5	0	0	0 5	00	- [4 655,	⇒ F	1 263	4,530 7,70 8	7,55,7	9 20
Puerto Rico	0 0	> c	1,248	3 853	1,43		-	¥ C	389	183	3,534	9.882	9.882	4.4
Homania	> <	> c	200	200,5	1.57	825	0	2.5	782	20	1	2,908	2,908	<u> </u>
Trinidad and Tobago	3,674	0	. t.	0	0	0	0	221	1,731	7	0	1,972	5,645	Ø
Other					,	1	•	((1	((•	3
Tunisia	4 20	٥	0 ;	0 5	0 00	2 4	0 0	- £	0 82	9	0 287	0 4 825	46 786	(s)
United Kingdom	14 1.95	S c	47		11 083	7.25	1 794	12 95.	34 575		ì	67,536	67.536	27.7
Virgin IslandsZaire	3,545	0	000,5	0	0 -	0	; o	0	0	• •	•	0	3,545	15
	:					100 me. am.								

Table 19. Year-to-Date Imports Of Crude Oil and Petroleum Products by Source and PAD District, January - August 1984 (Continued)

Source Other Western Hemisphere		127 2 2,636 3,663	Unfinished State Oils 611 45 14,332 15,427	Gasoline Blending Compo- nents 1,226 9,018 10,011	Finished Motor Gasoline 231 7,642 46,061 58,246	Jet Fuel 627 9,346	Kero- Pisti sener Oil PAD District Pub Oil PAD District 1,966 36,77 1,966 56,38 PAD District II	PAD District 1 Oil PAD District 1 0 32 60 3.243 1.966 36,792 1.966 56,388	Resid. Fuel Oil 6,852 7,448 110,411 155,038	Special Naphthas Naphthas 0 459 2,147 2,425	Other Products 2 2 1,076 8,835 12,806	Total Products ucts 7,860 21,827 241,544 329,261	Total Petro- leum 7,860 27,651 369,393 545,014	Total (Daily Average) 32 113 1,514
Algeria Algeria Kuwait Kuwait Kuwait Kuwait Kuwait Kuwait Kuwait Arabia Lurided Arab Emirates Subtotal Arab OPEC Cecudor Indonesia Iran Nigeria Venezuela Subtotal Other OPEC Company	6,594 199 2,291 11,154 11,154 1,040 1,040 1,203 1,753 1,775	00000 00000	% % % % % % % % % % % % % % % % % % %	00000 000000	00000	00000 000000	00000 000000	00000	00000 000000	00000	00,000 000000	200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6,594 199 2,291 2,069 11,154 0 1,040 7,406 417	27 10 10 10 10 10 10 10 10 10 10 10 10 10
Australia Bahamas Bahamas Bahamas Bahamas Conada Congo Congo Mexico Mexico Metherlands Peru Spain Trinidad and Tobago Coline Western Hemisphere Coline Eastern Hemisphere		34,196	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2		0048		000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 1,578	3,6655 0000000000000000000000000000000000	© © © 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 218 218 (\$) (\$) 0 0 0 0 0 0 0 0	0 218 104,055 1,957 (s) 31,548 1,044 5,19 222 0 5,758 1,730	0 426 (8) 8 (129 4 4 7 7
Other Total Imports	124,383	34,198	2,646	55	842	0 0	0 2,000 0 2,000 PAD District III	2,033 2,033	1,578	3,665	645	45,682	148,135	869
Arab OPEC Algeria	28,643 2,179 4,300	000	345 0 0	000	000	000	000	0,00	996 0 3,685	2,749	4,952 0 0	9,093	37,736 2,179 7,984	155 9 33

Table 19. Year-to-Date Imports Of Crude Oil and Petroleum Products by Source and PAD District, January - August 1984 (Thousand Barrels) (continued)

Source	Orude Oil 1	9d1	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel Oil	Resid. Fuel Oii	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
							PAD D	PAD District III						
•	107 +	6	٥	c	0	0	0	0	0	0	0	٥	1,497	9 0
Oatar	1,497	o c		0	0	0	0	0	1,013	0	0	1,013	68,400	282
Saudi Arabia	706,70	o c	780	0	٥	22	٥	0	1,311	0	7	2,853	20,122	2 2
United Arab Emirates Subtotal Arab OPEC	121,276	0	1,125	0	0	22	0	20	7,006	2,749	5,493	16,644	137,920	B A
										1	•	•	Č	S
Other OPEC	9 551	0	0		0	0		0	0	0	0 (0 0	1,55 1,55 1,55 1,55 1,55 1,55 1,55 1,55	200
Cahon	9.50	0	0	0	0	0		0	0	0 00	7	200	4,550	9 %
Indonesia	17,303	1,356	0		0	0		o ʻ	2,580	622	ς ς	062,4 0	1,030	3 4
	1,032	0	0		0	0		0 (٠ ر	5	248	1 792	34.034	139
Nigeria	32,241	0	1,379		0	0 0		m c	200	۰ پر	167	9.279	51,440	211
Venezuela Subtotal Other OPEC	42,161 111,838	0 1,356	4,156 5,535	96.	2,230	00	•	. m	4,552	297	486	15,308	127,146	521
Other	- 0	c	_		c	0	0	0	0		0	0	8,166	8,
Angola	8,186 0	-	o C			0	0	0	519	0	164	684	982	8
Australia	N C	o c	5,519	0	0	•		349	0		2,172	8,040	8,040	
Banamas	960	c	0		0	0			0		0 (2	200	- α
Bollvia	}	0	0		1,386	0			264	260	7 P	- 20.00 40.00 40.00	+56.	, -
Canada	-	0	0		Ο.	0			>	9 6	: c	3 -	3.193	. 21
Conto	3,193	0	0		0	0 (0 (9 0	> C	o c			674	. "
Egypt	674	0			0 (-	3		o c	o c	· -	· =	=	(8)
France	0	0	(S)		5 (> C	<u> </u>		c	0	0	125	125	
Malaysia	0	i	5 5		2	- g			380		273	Ξ	115,786	475
Mexico	104,326	1,581	6779		ĵ	3 -			0	300	519		978	•
Netherlands	0 (<u>-</u>	7		1 078				0		59	2,784	2,784	- 1
Netherlands Antilles	2 66	97 (9)	יייי		0	361			0	0	0 (361	8,685	რ '
Norway	1 115		. 0	0	0	٥			654		9	8 5	80/1	- 1
Doorle's Beautiful of China		0	0	4	0	0		-	0 8	5 6	3 0		•	. 4
Deci-		0	557		0	223			202	ć	•			_
Puerto Rico	0	0	0		0 (00			.		0	i	ĺ	
Romania	0	0	_	0	5 6	2					18			N
Spain	•	0	218		5	<u> </u>				0	16		9,765	40
Trinidad and Tobago	9,749	00	-	00	0	0			0	0	•		0	
Other					ţ	ţ		3	c		426			
United Kingdom	38,293	0	, 26 1	ଷ	127	5			1.338	356	339	6,81	6,819	28
Virgin Islands	3 992	00	4, 0	•	0						0	0	3,992	
Other Western	1)				•			c					
Hemisphere		0	20°	60°	o c	ָטָּ עס	5 g	2.05		868		10,165	29,565	121
Other Eastern Hemisphere Subtotal Other	19,400 . 198,580	1,608	28,134	1,5	3,03	1,668		5 975	5,740		4			
	104 603	9 064	34.794	4 2.086	5,320	1,888		6 1,028	17,298	3 7,774	10,402	83,559	515,252	2,112
Total Imports	. 451,030	17047	-											ĺ

Table 19. Year-to-Date Imports Of Crude Oil and Petroleum Products by Source and PAD District, January - August 1984 (Thousand Barrels)

Source	Crude Oil 1	LPG	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel	Resid. Fuel	Special Naphthas	Other Prod- ucts 2	Total Prod-	Total Petro-	Total (Daily
***							2000	000						vaerage)
							3	Suici iv						
Canada France	7,644	3,072	0	0	510	0	c	1016	Ş	,]			
Other Fastern Hemisphore		۰ ۵	0	0	0	0	9 0	2	200	m (883	5,594	13,237	\$
Subtotal Other	7.6	3.072	0 0	06	0 5	0	0	0	0	0	5 C	00	00	0 0
Total imports	1011		•	•	OIC	5	0	1,016	108	ო	883	5,594	13,237	. %
	4,0	3,072	0	0	510	•	0	1,016	108	ო	883	5,594	13,237	72
Ami, Opro							PAD District V	strict V						
Alacio														
Saudi Arabia	88 8	0	253	0	0	0	0	0	c	c	c	į		
United Arab Emirates	o c	> c	222	0 (0	0	0	0	0	9 0	-	3 5	1,187	un •
Subtotal Arab OPEC	83.	- c	60 2	0 0	0 (0	0	0	0	0	0	2 6	7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0	·- ,
		,	ţ	>	5	0	0	0	0	0	0	774	1,707	- ~
Ediador	360	0	0	0	0	0	C	c	C	(1			
Venezuela	34.539	00	1,808	0	1,156	167	0	33.	1.366	0	o -	0 900	360	- (
Subtotal Other OPEC	35.523	o c) a	0 (246	403	0	٥	٥	0	- 0	549	39,835 1 273	2 4
		•	000	>	1,402	220	0	331	1,366	467	·	5.945	41 468	î Ç
Other											•	2	2	2
Australia	3,571	427	0	Q	440	36	•	Č	į					
Brinsi	0	0	0	0	0	20	-	<u> </u>	87.78	0 0	4 ,	1,378	4,949	20
Canada	0	0	0	0	0	0	0	> c	> c)	0 (0	0	0
France	5,842 2	3,096	156	0	930	216	(S)	165	, K) 1	-	0	0	0
Malaveia	0 0	0	0	0	0	0		3	2 0	0 0	£	4,852	10,710	4
Moving	-	0	0	0	158	7	0	, 2	g	> 0	(S)	(8)	(s)	(s)
Nethoriande	> (0	۵	0	0	0	: :	, i	• •	> 8	3	284	-
Antilloc	5 6	(S)	0 1	0	0	0	0	. 0	5 -	ט ני	8 0	<u>.</u>	190	-
Nonway	> 0	-	_	0	0	4	0	0	192	, ,	5	n c	٠ د	(S)
The state of the s	>	0	0	0	0	0	0	0	90	0	<u> </u>	, ,	92 928	- 6
Ser Care												1	>	>
People's Hepublic of China	0	0	494	5.225	23	c	•	•	,					
Puerto Aico	0	0	0	0		•	.	- 6	0	347	က	6,842	6,842	28
romania	0	0	0	222	0	-	> c	73 C	0 (0	8	338	338	-
Virgin John J.	0	0	0	0	0	· c	o c	0	5		٥	22	222	-
Other Western	0	0	0	0	0	0	0	> C	-	(S)	0	(2)	(s)	(S)
Hemisohere	(•					,	•	>	4	0	46	46	(s)
Other Eastern Hemischere	2	o (0	0	0	0	0	318	c	ć	•		,	
Subtotal Other	10,818	(s) 3,571	1,032 1,688	215 5.662	3 107	282	0	218	1,356	8 6	848 0		318 6.242	- %
Total Imports	į	ļ				OZO.	<u>(c)</u>	35	2,002	929	•		30,504	55
and the second	41,214	3,571	4,270	5,662	4,509	1,190	(S)	1,466	3,368	1.123	1 241 2	. 26.400	72 670	6
1 Includes crude oil imported for storage	for storag	e in the Stre	tegic Petro	in the Strategic Petroleum Beser	970								מימים	302

1 includes crude oil imported for storage in the Strategic Petroleum Reserve.
2 Includes aviation gasoline, aviation blending components, waxes, asphalt, lubricants, pentanes plus, naphthas less than 400 degrees F, other oils greater than 400 degrees F and miscellaneous products. (s) = Less than 500 barrels or less than 500 barrels per day, Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

Table 20. Exports of Crude Oil and Petroleum Products by PAD District, August 1984 (Thousand Barreis)

į			Petroleum Administration for Defense Districts	n for Defense Districts		
Commodity	-	II	Ш	Ŋ	۸	Total
Crude Oil (including lease condensate) 1	0	887	0	0	4,999	5,886
Natural Gas Liquids	38	541	346	0	204	1,129
Pentanes Plus	Oχ	76 465	0 346	0 0	0 70	76
Ethane	S (£)	152	3.		(s)	152
Propare	. 22	127	343	0	. 8	576
Normal Butane	1 3	111	es	0	122	249
Isobutane	0	76	0	0	0	92
Finished Motor Gasofine	4	0	32	0	80	4
Naphtha-Type Jet Fuel	0	0	56	0	0	56
Kerosene-Type Jet Fuel	0	0	0	0	52	25
Kerosene	4	0	(s)	0	0	4
Distillate Fuel Oil	210	0	313	0	1,782	2,305
Residual Fuel Oil	212	0	1,791	0	6,061	8,065
Naphtha < 400 Deg. for Petrochem. Feedstock	56	13	110	-	6	189
Other Oils > 400 Deg. for Petrochem. Feedstock	-	62	93	0	-	124
Special Naphthas	4	જ	18	0	ო	56
Lubricants	89	18	132	- -	59	279
Waxes	ო	-	14	0	4	23
Petroleum Coke	395	260	1,547	0	2,257	4,459
Asphalt	32	16	-	-	(s)	51
Miscellaneous Products	15	Ø		(s)	4	32
Total Product Exports	1,043	882	4,434	က	10,443	16,805
Total Exports	1,043	1,769	4,434	ო	15,442	22,691

¹ Exports of crude oil are prohibited by law. However, some crude oil is exchanged with Canada on a barrel for barrel basis, and crude oil is shipped to U.S. Territories (especially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports.

(s) = Less than 500 barrels or less than 500 barrels per day.

Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

Table 21. Year-to-Date Exports Of Crude Oil And Petroleum Products By PAD District, January - August 1984 (Thousand Barrels)

Commodity			Petroleum Administrati	Petroleum Administration for Defense Districts		
	-	=	15	2	>	Tabel
Orude Oil (including lease condensate) 1	0	3 943	, , , , , , , , , , , , , , , , , , ,			
Natural Gas Linning	,	2	(e)	0	41,276	45,219
Pentanes Plus	318	4,397	5,464	(\$)	1 374	i i
ß	0 0	649	0	0	<u>.</u>	000'11
Ethane	318 (S)	3,748	5,464	(s)	1,371	10 902
Money D. de	155	1 093	(\$)	0	<u>(S)</u>	1,297
lookstano	163	710	015,4	© ;	250	6,307
Finished Motor Gooding	0	649	t C	(<u>s)</u>	821	2,649
Nankta Too let Engl	136	,	000	Ď í	0	649
Kensene-Time 1et Euch	(s)	. 0	000	.	745	1,215
Kerosene	176	139	431	-	0	. 500
Distillate Fuel Oil	ଯ	0	; en	.	380	1,127
Regional Final Cit	631	56	2 793	5	(8)	23
Naphtha < 400 Den for Patrochom Goodstell	845	0	13.813	(8)	8,603	12,083
Other Oils > 400 Den for Petrochem Foodstack	458	78	206	9 10	085,32	40,039
Special Naphthas	m ·	237	2.965		173	1,621
Lubricants	49	73	241	o a	264	3,469
Waxes	890	222	2.311	n ç	220	615
Petroleum Coke	37	9	666	2 0	369	3,802
Asphal*	1,779	2,045	24 740	> •	SN :	301
Miscellaneous Drodustes	47	. 59	25.	***	19,158	47,725
Total Product Expose	123	14	i 6	.	9	148
TOTAL TOTAL EXPONDS TOTAL TOTA	5,512	7.329	54 553	- {	26	261
Total Exports			on'th	87	. 95,756	124,178
***************************************	5,512	11,272	54,553	88	98 632	70000
Exports of condo oil and marking at the second				i	20,00	/55,501

¹ Exports of crude oil are prohibited by law. However, some crude oil is exchanged with Canada on a barrel for barrel basis, and crude oil is shipped to U.S. Temtories (especialty Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports.

(s) = Less than 500 barrels or less than 500 barrels per day. Note: Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

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Table 22. Exports of Crude Oil and Petroleum Products by Destination, August 1984 (Thousand Barrels)

Destination	Orde 7	947	Finished Motor Gasoline	Jet	Dist. Fuel	Residual Fuel Oil	Special Naphthas	Lubri-	Waxes	Petro- leum Coke	Asphalt	Other ²	Total	Total (Daily Average)
	5		082	,	3		٥	ч	(8)	c	c	(s)	7	·
Argentina	0 0	Ø 9	0 0	0	و ج	0	o wo	o 01	Œ	253	0	-	. Se3	ω ι
Australia	0		-	0	22	0	0		0	o į	00	(S)	75 C	~ c
Bahrain	0	0	0	0	0	0	0 0	(S)	9	618	0	> ~	636	7 7
Belgium & Luxembourg	00	_	> C	9 6		0	ହ	<u></u>	0	0		2	m	(s)
Brazil	o c	<u> </u>	0	0	0			(S)	0	8	0	0 !	8	~ 5
Canada	884	464	ო	0	883	38	**	46	2	573	0, c	- 135 -	3,084	₂ η α
Chile		(s)	35	5 8	4 5	ရှင်	જ ઇ	- Ç	@ E	<u>.</u>	o c		519	, , ,
China (Taiwan)	0	-	0 0	0 0	0 C	3 -	<u> </u>	(8)	ତ	·	0	©	-	(s)
Colombia	0	<u>6</u>	o c	9 6	0		2	. 4	(S)		(s)		_	<u>(S</u>)
Costa Hica	0	ે જ	0	0	0	0		(s)	8	٥	0 (Ø 3	- 1	© (
Dominican Republic	0		0	0 (0		© 9	¢	o E	-	- C	- 2	- 0	£ 6
Ecuador	0	0	0 0	0 0	o c			4 69	0 E	0	0	(S)	(C)	(S)
Egypt	o c	> C	o C	0			(g)	-	0			(s)	-	<u>(S</u>
El Salvador	0	0	0	0			;	<u>(s)</u>	•			۰;	(S)	
France		0	0	0				(s)	2				g g	xo Se
French Pacific Isl	0	0	0	0 (0 0	<u>©</u> 9	0 6		-	် ()	ે છ	<u> </u>
Ghana	0	0 (9	> (€	· C				. 80	<u>د</u>
Greece	0 (ကပူ	-	5 C					. 0			(S)	8	
Guatemala	-		.	-			(s)	-	0			0	-	(s)
Cullea	c	9	હ					2			;	© 3	2 2	@ Q
Horo Kond	0	<u>(8</u>		0	<u> </u>				<u>©</u>	0 (© 3	2 9	ΝÇ	<u> </u>
India	Ö		0	0		0 1		<u>e</u> .	Ø (00	<u>(s)</u>	2	3 rc	£ (9
Indonesia	0		0	0 (۳		-	4 C			00	- 0	0	0
Iran	0 (0 4	⊃ c	5 C			(S)	(S)	0			_	7	(s)
Israel	> •	0 0		0	0			;	Ø	325	_	8	764	% '
Italy Coast	0	10	0	0				<u>(s)</u>	0		<u> </u>	D 1	124	4
Jamaica	0	4	0	0		•	3	α α	00		_	- e	4301	139
Japan	0	o	0 0	0		21/2	<u> </u>	(§			0	<u>(s)</u>	S	(s)
Jordan	o 6	0 6	-	,	٣	239		C	(s)	S)	(8)	4	256	60
Korea, Republic of		n C	0	. 0				~	0	0			~ 1	© 9
Lebanon	0	0	0	0	0	0	0	- 1	0 (-	<u>ره</u>	<u> </u>	- 6	£ (9)
Uberia	0	Ω.	0	0				<u> </u>	-		· 2) (<u>s</u>)	2	(S
Malaysia	o (o	o •	ວ ຊ	(4)		(S)	29.	• rt3	, g			1,247	Q
Mexico		463	0 0	70	Ξ	-		_	<u>s</u>	792	٠.	8	815	8 :
Netherlands		10	0		-			•		- 3		⊕ ⊛	15.55 1.55 1.55 1.55 1.55 1.55 1.55 1.5	4 4
Neuralian America		0	0	0			©	<u>.</u>	®	יינו	<u>.</u>	- (S)	<u>-</u>	· Ø
Nicaradua	0		0	.					, (8)		· 60	2	7	(S)
Nigeria	.	G (0 0	- •				: ହ	3	83		(s)	30	_
Norway	>	<u>6</u>	5 C	, .				. @	Ĭ	_		ছ	હ	T.
Pacific Inst 1eff.		0	• •	· O	4	189	® :		ල 	€ (©	® .	•- E	2/0	ۍ او
Pen		0	0	Ο.				.W. T	9	_		E .	1 4	ෙ
Philippines	٠,	(S)	0 6	J (•	- ~	· 12	-	_		24	1,754	27
Puerto RicoRep. of South Africa	0 0	<u>.</u>	00		(8)		(8)	~	•		(s)	-	8	es
oldet to bag to opportugate of				e e e e e e e e e e e e e e e e e e e			į.					i.		
OGG IDOUNDES OF THE T	š.													

Table 22. Exports of Crude Oil and Petroleum Products by Destination, August 1984 (continued)

1 Exports of crude oil are prohibited by law. However, some crude oil is exchanged with Canada on a barrel for barrel basis, and crude oil is shipped to U.S. Territories (especially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports, and exports, and exports.

than 400 degrees F and miscellaneous products.

(s) = Less than 500 barrels or less than 500 barrels per day.

Note: Total may not equal sum of components due to independent rounding.

Source: See Explanatory Notes on Data Collection and Estimation.

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Table 23. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January - August 1984 (Thousand Barrels)

1	Average) 225 1 134 12				22 22 5 64 130	
Total		334 27				
Other2	724	r0 -4	2 c \f 8	% (§)	16 (s)	(s) 161
Asphalt	1	(S)		. t 0 (8)		
Petro- leum	23 4,527	315 0 2		95 237 0	559 0	341 183
Waxes	(8)(8)	(§ (§			S 0 3	
Lubricants	55 A 85	E 5 & &	} = = 15.	, e 88 3	(s) 73 73	(s) 59 3,802
Special Naphthas	-40	(8)	(8) (8)	(5)	, o (s)	(s) 615
Residual Fuel Oil	(s) 2.708 1,468	000	000	- 0 0 0	3,947	553 40,039
Dist. Qii	381 381	000	ଉଉଉ	0 0 (S)	000	151 12,083
Fuel	0000		9000	,000	000	1,327
Finished Motor Gasoline	2000	၀၀၉ (000 (8	000	000	(s) 1,215
LPG	35140	იი <u>;</u> დ	(S) + + + + + + + + + + + + + + + + + + +	(s) 525	(S) 7 0	99 10,902
Crude Oil 1	000	0000	000	(s)	27.802 0 0	6,530 45,219
Destination Saudi Arabia	Singapore Spain Sunnam	Switzerland Thailand Trinidad and Tobago	Turkey United Arab Emirates United Kingdom	Uruguay Venezuela Viorian felande	West Germany Yugoslavia	Total

TEXPORTS of crude oil are prohibited by law. However, some crude oil is exchanged with Canada on a barrel for barrel basis, and crude oil is shipped to U.S. Territories (especially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports, than 400 degrees F and miscallaneous products. But 400 degrees F and miscallaneous products.

(s) = Less than 500 barrels or less than 500 barrels per day.

Note: Total may not equal sum of components due to independent rounding.

. Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, August 1984 (Thousand Barrels)

	PA	PAD District I			PA	PAD District II	-				PAD District III	trict III			PAD	8	
Commodity	East Coast	Appa- lachi- an #1	Total	Appa- lachi- an #2	Ind. F. K	Minn., Wisc., Daks.	Okfa, Kans., Mo.	Total	Texas	Texas Gulf Coast	La. Gulf Coast	No. La., Ark.	New Mexico	Total	Dist. IV Rocky Mt.	V V West	United States
Crude Oil (incl. lease condensate) Refinery	I	ŀ	14 500	ı	ı			19.604		•				9	1		
Tank Farms and Pipelines	I		1,459	1	1	ı		59,341	1 1	1	11		1	43,039 95,396	2,133 9,657	23,392	96,917 192,718
Leases	ŀ	ı	8	l	ı	ļ	ŀ	1,553	ı	1	ı	ı	ŀ	16,734		1,598	21,243
Sualegic Petroleum Heservel Alaskan In-Transit			o c			i		00		1		ļ	I	429,467	0 0	0	429,467
Total	1	1	16,118	1	1	H	ŀ	74,588	1 1		1 1	İΙ	ł I	584,696	13,088	24,041 75,896	24,041 764,386
Total Stocks, All Olls (excl. Crude Oil)																	
Refinery	37,752	2,659	40,411	925	39,795	5,968	15,509	62,197	9,568	73,311	44,590	4.955	1.612	134.036	11,432	60.457	308 533
Bulk Terminal	. 1		110,163	ı	1	1	ı	85,046	1		1	}	!	86,711	3,043	22,288	307,251
Pipeline	1		25,953	1.	I	ı	I	35,670	1	ŀ	I	1	i	40,279	3,289	4,539	109,730
Natural Gas Processing Plant	213	98 	249 176.776	0	069	4 £3	1,658	2,391 185,304	1,458	4,958	469	75	208	7,168	189	183	10,180
Denteran Dire								•								; ;	
Refinery	13	0	13	0	42	72	145	214	4.5	200	118	1,1	u	475	8	Ç	720
Bulk Terminal	ı	Ī	2	1	!	i	1	2,191	!	 	<u> </u>	<u>:</u>		3,689	30	<u>.</u> 4	5.905
Pipeline	ı	1	0	ŀ	ł	I	I	769	ŀ	I	I	ı	I	1,149	149	5	2,072
Natural Gas Processing Plant	4	ς,	o (0	8	21	329	410	487	211	211	31	24	1,327	85	52	1,833
	I	ı	£	ı	i	I	I	3,584	ı	l	I	ł	i	6,640	234	47	10,548
Liquefied Petroleum Gases																	
Refinery	856	15	871	241	2,128	168	624	3,161	198	1,091	1,609	42	25	2,965	352	722	8.071
Bulk Terminal	ı	ı	387	1	I	1	i	22,329	ı	ı	I	I	ı	58,604	115	1,855	83.890
Pipeline	ı	L	1,382	1	Ī	1	ı	6,407	I		ı	ŧ	I	5,350	1,232	0	14,371
Natural Gas Processing Plant	8 8 8	હ	240	0	627	સ	1,329	1,978	883	4,380	258	14	187	5,749	121	158	8,246
	1	1	3,480	I	l	l	ı	33,875	۱.	ı	l	1	I	72,668	1,820	2,735	114,578
	١	(, t			!	•		,	ı							
Rennely	,	0	- c	0	9	9	0	, 25 1	0	~	0	0	0	~	0	0	33
1111 IÇI	l	1	5	ı	ı	ŀ	l	2,452	ı	ŀ	ı	ı	ŀ	12,689	0	0	15,141
	, 	ı .	۰ د	 	1	ı	1	1,987	1	I	ı	1	I	1891	2	0	4,008
Natural Gas Processing Plant	0	0	0 1	0	24	0	290	314	8	1,185	0	-	7	1,269	-	0	1,584
	1	I	`	l	1	ŀ	I	4,778	I	I	I	ŀ	1	15,856	쥰	0	20,772

See footnotes at end of table.

Table 24. Stocks of Crude Oli and Petroleum Products by PAD District, August 1984 (Thousand Barreis) (continued)

Commodity	_	יים מוצות העי	=		2	LAD DISTICT II	=				PAD District III	trict 111			à	DAD	
	East	Appa- lachi- an #1	Total	Appa- lachi- an #2	Ind., III., Ky.	Minn., Wisc., Daks.	Okla., Kanš., Mo.	Total	Texas	Texas Gulf Coast	La. Gulf Coast		New Mexico	Total	Dist. IV	Dist. West	United States
Propane for Petrochemical Feedstock Use Fielinery	Jse 63	١	88	١	. 8	0	8	283	7	9	121	0	•	129	- O	Coast	
Propane For Other Uses								\$	1	ı	i	ı	I	129	0	0	
remery	13	ا ت	25 25 25 25	1 2	1,391	≅	162	1,573	62	55	1,099	4	€,	1,222	174	302	3.993
Natural Gas Processing Plant Total	²	۱ ا	1,227 221 2,945		1 481	1 1	674	3,413 1,165 22,220	1 4 75	1,608	1 1 5	1 5	1 100	28,895 2,055 2,352	114 978 80	494 138	46,347 7,673 3,956
Normal Butane For Petro, Feed Use											ľ	i	l	34,524	1,346	934	61,969
Hetinery Total Normal Butana For Other Iteas	0	• 	00	o 	0	4 .	0	4 4	0	4	0	- 1	0	ro ro	ოო	010	
Refinery	88 1	5 1	65 193 125	198	8	. H	295	936 2,681	9	796	8 1	1 8	۱	1,111	131	382 1.129	2,625
Total	ا ھ	0	18 401	0	ا ق	유 	278	388 4,612	292	1,070		ا ئ	1 49	898 1,499 15,293	2,83	0 44	1,711
Isobutane Refinery	7	c	7	*	ć	:								202	/ \$ /	626.1	N
Bulk Terminal) 	<u> </u>	F 	8	1 4	8	1,127		1 gg	508	۱ ۵	φ 	491	4 o	36	~ c
Natural Gas Processing PlantTotal	- - -	0	- 2	o 	8	N 1	87	400 111 2.137	 %	517	37	1 2	٦	506 629	£ 0	0 9	979
Other Hydrocarbons and Alcohol Refinery	ő	c	. 0	c	Š	•					!	l	l	198's	66 67	274	o,
Total	1		8 8	.	<u> </u>	ь І	o J	133 133	- I	88 	«	ا ا	0	56 6	00	ינטי	328
Unfinished Oils Refinery														5	>	ဂ	
Naphthas and LighterKerosene and Lighter Gas Oils	3,161	142	3,303	94 0	2,757	132		3,910			5,700	247	89	14.599	21.2	4 606	5
Heavy Gas Oils	4,634		4,951	108	1,830 4,462	336	513 1659	2,347 6.565	652		1,989	<u>ج</u>		9,819		4,030 5,046	19,045
Total	1,957	289	2,246	-	2,887	16		4.174			3,330	112 55	96 4	16,758	934	9,207	38,475
	1,130		11,895	155	11,936	488		16,996			17,470	445		51.305			21,514

See footnotes at end of table.

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, August 1984 (Thousand Barrels) (continued)

	A	PAD District	_		PA	PAD District II	_				PAD District III	ict III			PAD	PAD	
Commodity	East	Appa- lachi- an #1	Total	Appa- lachi- an #2	ind., III., Ky-	Minn., Wisc., Daks.	Okla., Kans., Mo.	Total	Texas	Texas Gulf Coast	La. Gulf No. La., Coast Ark.		New Mexico	Total	Dist. IV Rocky Mt	V West Coast	United
Motor Gasoline Blending Components Refinery Bulk Terminal Pipeline Total	6,022	₽	6,099 21 0 6,120	4 111	4,745	537	1,801	7,127 142 1 7,270	1,291	8,090	6,020	8 111	272	15,767 223 0 15,990	1,604 1 0 1,605	7,389 149 0 7,538	37,986 536 1 1 38,523
Aviation Gasoline Blending Components Refinery	0	0	00	٥	1 8	0	۱	##	0	₉₈ ا	87	6 	о 	123 123	00	==	21. 1. E
Total Finished Motor Gasoline Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	5,269	179	5,448 39,842 14,540 0 59,830	ا ا ا	6,333 	8 4 1 1 1 1 1 1 1 1	2,598	9,842 29,034 16,564 0 55,440	2,139	8,215 	4,805	866	508	16,365 11,658 19,155 0 47,178	2,042 1,641 1,116 6 4,805	7,534 9,814 1,979 0 19,327	41,231 91,989 53,354 6 186,580
Finished Leaded Motor Gasoline Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	2,093 	8, 0	2,191 18,650 5,543 0 26,384	37	2,923	44 0	1,305 	4,712 14,540 8,162 0 27,414	1,065	3,386	1,759	328	113	6,651 5,153 8,610 0 20,414	1,166 1,078 660 5 2,909	3,074 4,699 908 0 8,681	17,794 44,120 23,883 5 85,802
Finished Unleaded Motor Gasoline Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	3,176	£ 1 1	3,257 21,192 8,997 0 33,446	9 1	3,410	367 1	1,293	5,130 14,494 8,402 0 28,026	1,074	4,829	3,046	0 670	98 	9,714 6,505 10,545 0 26,764	876 563 456 1	4,460 5,115 1,071 0 10,646	23,437 47,869 29,471 1
Finished Aviation Gasoline Refinery	. 11 6		45 336 0 0 381		g	11 1	£	67 365 89 0 521	1 1 1 1 1 1 25	395	+ 1 1 1	0 0	0 0	656 67 97 25 845	38 00 0 6 8 8	209 369 30 0 0 608	1,015 1,147 216 25 2,403

See footnotes at end of table.

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, August 1984 (Thousand Barrels) (continued)

Mexico Me	Commodity Type Jet Fuel Timal Type Jet Fuel Timal		Appa- lachi- an #1	Total	Appa-]	Minn,	1 2				PAD C	110		_			
Second S	Type Jet Fuel Thinal Type Jet Fuel		ach.	Total			_						אוויג זוו			PAD	PAD	
384 30 414 0 563 82 155 800 322 780 374 164 217 1208 0 1208 37 1349 189 305 1881 317 3528 2.987 10 88 355 112 467 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Type Jet Fuel minal Type Jet Fuel minal	384		m	lachi- an #2	를 주. 주.		Kans,	Total	Texas	Gulf	La. Guif	No. La.,	New	Total	Dist. IV	oist.	United States
1,208	Trinal Type Jet Fuel	384					-				Coast			Mexico		Ν	Coast	
	Turkal	111 %	90	7 + 7	•	i												
1,208	Type Jet Fuel	1 208	3	451		g N	82	ਨ	800		780	374	7.5	1				
1208	Type Jet Fuel minal	1 88	1	143		i	ł	1	538	'	1	1	<u> </u>	/17	\chi_{\chi_{\chi}}	245	825	
1,208	-Type Jet Fuel minal	208	ı	1,007	1	1 1	1 1	! !	112		1	1.	1	1 1	161	7 7	8	1,657
1,208	minad	208						ŀ	104.		ı	1	1	ı	2,541	328	1 734	
	minal	2	,													ř	5	
355 112 467	***************************************	1	0	1,208	37	1,349	189	305	100	ç		,						
355 112 467 0 485 29 421 935 69 544 504 92 46	***************************************	ĺ	ı	4,515	ı	ļ	1	}	90,7	7	3,528	2,987	10	83	6.925	451	2 483	***
355 112 467 0 465 29 421 935 69 544 504 92 46		ļ	1	3,479	ı	ı	1	1	2,484	i	ı	1	ı	1	2,031	3	1,400	70,04
355 112 467 0 485 29 421 935 69 544 504 92 46		ı	1	9,202	1	ł	1	ŀ	0 22 2	1	ı	1	i	1	4.467	181	3 8	4 6
355 112 467 0 485 29 421 935 69 544 504 92 46 — 0 0 117 — 0	Kerosene								5	ľ	I	1	I	1	13,423	200	200	7 6
355 112 467 0 485 29 421 935 69 544 504 92 46 — 0	Refinery															3	0,70	y,
5.863 36.943 -	Bilk Teminal	355		467	0	485	Ċ	Ş	1							•		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	******************************	1	1	3.043)	2	44	935	69	544	204	8	46	1 255	•		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		ı	1	117		ı	l	I	1,026	1	1		, ;	ř	001	⇒	261	2,91
5,863 369 6,232 73 6,452 1,705 3,221 11,451 1,027 8,937 4,218 1,084 258	as Processing Plant	0	c			1	1	ł	246	ı	1	ł		l	472	37	40	4,61
5.863 369 6.232 73 6,452 1,705 3,221 11,451 1,027 8,937 4,218 1,084 258		· .	,	2000	>	>	0	0	0	1	c	c	۱	1	284	0	0	950
			,	2,00,0	1	1	1	1	2,207		· 	>	>	0	,	0	0	
5.863 369 6.232 73 6,452 1,705 3,221 11,451 1,027 8,937 4,218 1,084 258	Distillate Fuel Oils											1	ł	1	2,315	37	301	8.487
2,372 76 2,448 50 1,486 274 183 1,993 349 3,586 2,706 188 18 18 1 283 0 283 0 283 0 99 0 58 157 82 773 473 35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		863		000	i	!												
2372 76 2448 50 1,486 274 183 1,993 349 3,586 2,706 188 18 2372 7 2 1,484 5 1,486 274 183 1,993 349 3,586 2,706 188 18 2372 7 3 2,448 5 1,486 274 183 1,993 349 3,586 2,706 188 18 2372 7 6 2,448 5 0 1,486 274 183 1,993 349 3,586 2,706 188 18 2372 7 7 5 2,48 5 0 39 0 58 157 82 773 473 35 0 0 0 5 5 0 5 0 0 0 0 0 0 0 0 0 0 0		}		252,0	દ	6,452	1,705		11.451	1 027	2000	9						
2,372		ľ	,, 	15,551	ł	I	1		18.902	<u>.</u>	0,00	4,218	1,084	258	15,524	2,197	5.054	40 45
2,372 76 2,448 50 1,486 274 183 1,993 349 3,586 2,706 168 18 2,872 76 2,448 50 1,486 274 183 1,993 349 3,586 2,706 168 18 2,872 76 2,448 50 1,486 274 183 1,993 349 3,586 2,706 168 18 2,872 773 473 35 0 5 0 5 0 30 0 0 30 242 1,219 155 0	Natural Gas Processing Plant	٠		6,288	1	1	1		8 908	1	l	l	ł	1	6,398	779	4 700	67,440
2,372 76 2,448 50 1,486 274 183 1,993 349 3,586 2,706 168 18 2,372 76 2,448 50 1,486 274 183 1,993 349 3,586 2,706 168 18 2,372 76 2,448 50 1,486 274 183 1,993 349 3,586 2,706 168 18 2,372 76 2,448 50 1,486 274 183 1,993 349 3,586 2,706 168 18 2,372 76 2,448 50 1,486 274 183 1,993 349 3,586 2,706 168 18 2,372 76 2,448 50 1,486 274 183 1,993 3,586 2,706 168 18 2,372 77 3 473 35 0 2,372 77 3 473 35 0 2,373 77 3 473 35 0 2,374 183 1,993 3,586 2,706 168 18	Total	>		0	0	0	0	c		,	1	1	1	1	8,674	535	1 238	2 4 4 6
2,372 76 2,448 50 1,486 274 183 1,993 349 3,586 2,706 168 18 2,372 76 2,448 50 1,486 274 183 1,993 349 3,586 2,706 168 18 2,372 76 2,448 50 1,486 274 183 1,993 349 3,586 2,706 168 18 2,83 0 2,83 0 99 0 58 157 82 773 473 35 0 5 5 0 5 0 30 0 0 0 30 242 1,219 155 0 0	***************************************			9,181	1	1	. 1	•	30 250		-	0	0	0	-	9	}	3
2,372 76 2,448 50 1,486 274 183 1,993 349 3,586 2,706 168 18 2,372 76 2,448 50 1,486 274 183 1,993 349 3,586 2,706 168 18 2,372 76 2,448 50 1,486 274 183 1,993 349 3,586 2,706 168 18 2,83 0 2,83 0 99 0 58 157 82 773 473 35 0 2,83 0 5 0 30 0 0 0 30 242 1,219 155 0 0	Residual Fire Offe								62,63	1	1	1	I		30.597	3511	0000	
2,372 76 2,448 50 1,486 274 183 1,993 349 3,586 2,706 168																- 2	755,01	35,540
283 0 283 0 99 0 58 157 82 773 473 35 5 5 0 5 0 30 0 0 0 30 242 1219 155 0	***************************************	372		2,448	65	4 786	37.4	1										
283 0 283 0 99 0 58 157 82 773 473 35 283 0 5 0 30 242 1219 155 0	Disoline	1	-	9,431	}	2	4/7	200	1,993	349	3,586	2,706	168	α.	6 8 3 7	Č		
283 0 283 0 99 0 58 157 82 773 473 35 25 0 5 0 5 0 30 242 1.219 155 0	***************************************			¥		l	ľ	ļ	1,649	ļ	1	. 1	;	?	2000	222	7.027	18,827
283 0 283 0 99 0 58 157 82 773 473 35 25 0 5 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0				700		l	!	!	0	1	ļ	١	١,	I	2,383	٥	2,245	25,708
283 0 283 0 99 0 58 157 82 773 473 35 283 0 283 0 99 0 58 157 82 773 473 35 5 0 5 0 30 0 0 30 242 1,219 155 0				,	1	1	ı	1	3.642	l		l	ı	ı	0	0	132	137
283 0 283 0 99 0 58 157 82 773 473 35 283 0 283 0 99 0 58 157 82 773 473 35 5 0 5 0 30 0 0 30 242 1,219 155 0	laphtha < 400 Deg. Petro. Feedetock								1	ı		1	1	ı	9,210	532	9.404	44 672
283 0 283 0 99 0 58 157 82 773 473 35 283 0 283 0 99 0 58 157 82 773 473 35 5 0 5 0 30 0 0 30 242 1,219 155 0		(!	7,5
283 0 283 0 99 0 58 157 82 773 473 35 5 0 5 0 30 0 0 30 242 1,219 155 0	***************************************	383	0	283	0	ğ	c	ć	ļ									
5 0 5 0 30 0 0 30 242 1,219 155 0		83	0	283		3 6	s 6	ສິ	157	82	773	473	35	c	1 369	c	į	
5 0 5 0 30 0 0 30 242 1,219 155 0				}	,	D D	5	28	157	82	773	473	K		300	> (7	1,877
5 0 5 0 30 0 0 30 242 1,219 155 0	rmer Oils > 400 Deg. Petro. Feedstock											•	3	5	505,	0	74	1,877
	remeny	5	_	ц	c	ć												
	lotal	יע	· c) (5 (9	0	0	ဓ	242	1 219	155	¢	,				
30 242 1210 151		,	•	n	5	ဓ	o	0	30	242	5	3 5)	5	1,616	ß	96	1.752
0 661 612,1 272)	7.7	57,1	22	0	0	1,616	ut.	g	7 7 7 7
	See footnotes at end of table											})	>	1,616	ro.	σ	ဖွ

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Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, August 1984 (Thousand Barrels) (continued)

	1 25	PAD District	_		PAL	PAD District ()					PAD District III	rict III			PAD	PAD	
Commodity	East	Appa- lachi- an #1	Total	Appa- lachi- an #2	Ind., III., Ky.	Minn., Wisc., Daks.	Okla., Kans., Mo.	Total	Texas	Texas Gulf Coast	La. Gulf No. La., Coast Ark.		New Mexico	Total	Rocky Mt	West Coast	United
Special Naphthas Refinery Bulk Terminal Natural Gas Processing Plant Total	75 1	0g 0	87 514 0 601	0 0 	120	1 1	£ 1 1	254 116 0 370	4 PE 1 25 L	985 0	± 1 '1	137	1	1,287 20 52 1,359	7007	248 29 0 277	1,883 679 52 2,614
Lubricants Refinery Bulk Terminal	1.180	8 1	2,025 1,376 3,401	0	808	0	475	1,284 869 2,153	24	3,088	1,348	288	199	5,250 251 5,501	65 67	508 614 1,122	9,132 3,112 12,244
Waxes Refinery Total	4	76	80	0	8 1	0	32:	57	12	191	£	98	1	377 377	00	39	553 553
Petroleum Coke Refinery	892 892	00	892 892	00	294 294	376 376	135 135	805 805	00	252 252	786 786	206 206	00	1,244	159 159	1,669	4,769 4,769
Asphalt and Road Oll Reifnery	1,545	22	1,617 2,853 4,470	7 1	2,561	1.277	747	4,807 2,879 7,686	99	426	1 545	743	0	2,274 579 2,853	1,235 216 1,451	1,733 155 1,888	11,666 6,682 18,348
Miscellaneous Products Refinery	1 1	8 1 1	182 112 0 0 294	0 0	106	0 8	8	126 37 92 3 258	1 1 1 33	848 	8 1	92 1	0 0	490 175 277 13 955	62002	157 134 150 0 441	974 460 519 16 1.969
Total Stocks, All Olls	1	I	192,894	1	1	I	l	259,892	ı	ı	1	ı		852,890		31,041 163,363	1,500,080

¹ includes 33.879 thousand barrels of domestic crude oil. Source: See Explanatory Notes on Data Collection and Estimation. — Not Applicable.

Table 25. Refinery and Bulk Terminal Stocks of Selected Petroleum Products by State, August 1984 (Thousand Barrels)

	Leaded	Unleaded		Distillate	Residual
State	Motor Gasoline	Motor Gasoline	Kerosene	o le	ē ē
			2 5 10	42 893	21 879
PAD District I Total	ZU,841	772	88	2,025	251
Defended D.C. Mandard	894	1,397	137	3,386	2,167
Florida	2,406	3,395	147	2,103	1,000
Georgia	1,170	1,351	94	1,382	670
Maine	320	338	3 8	3.244	953
Massachusetts	502.	980	? ≯	359	185
New Hampsnire, Vermont	2,703	5.235	803	11,458	8,830
New Jersey	4,300	2,777	412	6,067	3,132
North Carolina	1,559	1,162	515	1,623	776
Pennsylvania	2,795	3,582	658	4,849	/88'.
Rhode Island	292	512	≯	1,178	57.5
South Carolina	897	5,013	C81	1,234	1188
Virginia	193	199	17	224	49
		70000	1901	30 353	3.542
PAD District II Total	19,252	19,624	1,301	5,55 5,42	951
Ilinois	3,010	4,000	276	5,402	523
Indiana	75.7	752) 3	1,429	*
Wasse	1310	1 241	24	1,753	23
Kansas	1,013	660	228	1.581	199
Kentucky	1,100	1 874	£ £	2.574	321
MICHGENERAL	050.		3	1,715	300
MITTIESOLA	200,1	233	: 3	708	*
Mobile	240	200	: 0	224	0
Noth & Couth Datata	233	345	. 0	985	*
Obio	27.08	2 926	429	3,300	483
Oklaboma	626	981	398	2,297	198
Tennessee	1.057	1.173	100	933	163
Wisconsin	1.158	1.033	*	1,910	145
PAD District III Total	11,804	16,219	1,727	21,922	9,210
Alabama	845	864	110	939	£7.
Arkansas	196	213	*	189	.
Louisiana	1,723	2,995	512	4,312	3,232
Mississippi	926	1,435	19	1,661	286
New Mexico	211	178	*	364	8
Texas	7,853	10,534	1,036	14,457	4,584
Stor VI spiritual C 4 c	2 244	1 439	37	2.976	532
Colombo	683	£03		467	94
Idabo	220	8	0	208	0
Montana	545	393	*	1,007	06
	293	187	0	496	212
Wyoming	503	375	*	798	136
PAD District V Total	7,773	9,575	301	9,754	9,272
Alaska	469	280	≱	29 E	* °
Arizona	321	304	≯ ¦	2/2	2
California	4,231	6,303	500	5,147	6,772
Hawaii	258	073 750	0	274	*
Nevada	180	162	3	110	*
Oregon	648	567	≩	888	307
Washington	1,666	1,739	≩	760'Z	eds.,
United States Total	61,914	71,306	7,536	107,898	44,535

w = Withheld to avoid disclosure of individual company data.
 Source: Soe Explanatory Notes on Data Collection and Estimation.

Table 26. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge between PAD Districts, August 1984 (Thousand Barreis)

	J.F.	From 1 to			From II to	1 p			From III to	t 1	-	<u> </u>	From IV to			From V to	g g	
Commodity	=	E	>	_	=	2	>	_	=	1/	^	=	=	>	-	=	≡	≥
On Granten and Berne only)	7.	0	0	0	۰	٥	0	431	926	0	0	0	0	0	3,465	0	13,331	0
Cidue On (Taline) and Day 20 (1)			•	i d	i	i c	;	14,001	644	•	000	1 997	716	113	c	c	c	c
Petroleum Products	9,170	60 4	0 0	2,635	2,9 2,8	97.7	2 0	14,237	1 422	0	000) 60'1 26	120	0	0	0	0	0
Pentanes Plus	- -	0	0	902	5.273	S	0	2,075	7,840	0	0	929	596	0	0	0	0	0
Uduelled Peroleum dases	0	109	0	0	0	0	119	1,325	235	0	0	0	0	0	0	0	0	0
Chillipsied City	0	0	0	0	0	0	0	121	æ	0	0	0	0	0	0	0	0	0
Motor Gasoline Blanding Components	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Availor Gasoline Denoming Composition	6.275	0	0	1,203	1,973	1,404	0	44,981	14,841	0	833	2	0	761	0	0	0	0
Cinistrat Leaded Motor Gasoline	3,085	0	0	386	915	737	0	15,957	7,365	0	460	393	0	480	0	0	0	0
Tillisted Leaded Motor Casoning	3 190	0	0	817	1,058	667	0	29,024	7,476	0	439	248	0	283	0	0	0	0
Finished Unleaded Motor describe comment		0	0	0	0	27	0	137	162	0	0	0	0	0	0	0	٥	0
Finished Aviaudi dasonile	S	20	0	0	140	0	0	435	-	٥	225	73	0	9	0	0	0	0
Napima-Type del ruei	250	0	0	118	2	260	0	8,564	2,615	0	583	0	0	85	0	0	0	0
Kerosene-Type Jet Fuel	24	0	0	٥	0	0	0	122	0	0	0	0	0	0	0	0	0	0
Netoselle	2.453	0	0	237	546	240	0	15,010	5,340	0	333	410	0	167	0	0	0	0
Residual Fuel Oil	o i	٥	0	61	38	0	0	374	0	0	0	0	0	0	٥	0	0	0
Naphtha and Other Oils for Petro.					•	•	•	•	,	•	•	c	•	•	•	•	c	•
Feedstock	43	0	0	28	0	0	9	j (2 ;	> (> 0	> <	-	> <	0	0 0	9 6	> 0
Cooriel Nachthae	0	0	0	0	0	0	0	369	134	•	>	>	>	٠ د	۰ د	o	o	· c
Library Comments	14	45	0	80	68	٥	0	553	227	0	108	0	0	0	0	Ó	0	0
Mondaine	0	0	0	0	0	0	0	52	45	0	0	0	0	0	0	0	0	0
WAKES	0	116	0	192	0	0	0	51	527	0	0	0	0	0	0	0	0	0
Miscellaneous Products	2	88	0	10	33	0	0	20	9	0	0	0	0	0	0	0	0	0
Total All Products	9,244	409	0	2,635	8,971	2,286	119	74,668	34,478	0	1,908	1,897	716	1,110	3,465	0	13,331	0

Source: See Explanatory Notes on Data Collection and Estimation.

Table 27. Movements of Petroleum Products by Pipeline between PAD Districts, August 1984 (Thousand Barrels)

	From I to	<u>5</u>	ш.	rom II to			From III to	ll to		u.	rom IV to		From V to	v to
Commodity	=	III	-	Ħ	2	-	=	2	>	=	=	>	=	2
Posterno Dire	c	0	0	858	0	0	1.422	0	0	97	120	0		0
Tended Devolute Good	0	0	706	5.273	33	1,965	7,840	0	0	9/9	596	0		٥
Motor Casoline Blanding Components	0	0	0	0	0	0	0	0	0	0	0	0		0
Aniotop Capolina Blanding Components	0	0	0	0	0	0	0	0	0	0	0	0		0
Chishad Motor Gasofine	4.703	0	1,014	1,973	1,404	35,634	14,087	0	833	641	0	761		o
Enished Leaded Mater Gasoline	2.256	0	326	915	737	12,845	7,038	0	8	393	0	480		0
Enished Unisaded Motor Gasoline	2,447	o	688	1,058	299	22,789	7,049	0	439	248	0	281		0
Ciniched Aviotion Garoline	0	0	0	0	27	10	136	0	0	0	0	0		0
Northful Type lef Fire	0	0	0	5	0	86	-	0	82	73	0	5	0	0
Koncona Time let Friel	103	0	118	2	260	6,257	2,262	0	283	0	0	82		٥
	9	0	0	0	0	9	0	0	0	0	0	0		0
Second and Oil	1.708	0	170	528	240	12,096	5,042	Q	393	410	0	167		0
	0	0	0	0	0	0	0	0	0	0	0	0		0
	٥	0	0	0	0	0	0	0	0	0	0	0		0
Total	6,530	0	2,008	8,793	2,286	56,413	30,790	0	1,800	1,897	716	1,110		0

Source: See Explanatory Notes on Data Collection and Estimation.

Aovements of Crude Oil and Petroleum Products by Tanker and Barge between PAD Districts, August 1984 (Thousand Barreis)

											. 455.00	ŀ			
	1	From I to		_	From II to				From III to	II to			ш	From V to	
Commodity	=	=	>	_	E	>	_	New Eng	Cent Atl	Low	=	>		=	=
Crude Oil	74	0	0	•	٥	۰	431	0	25	0	926	0	3,465	0	13,331
Detroleum Draduch	2,640		0		178	119	17,824	597	3,757	13,470	2,762	108	0	0	0
Linefed Detroloin Cases	1		0			0	110	0	0	110	0	0	0	0	0
Infinished Oils	01		0			119	1,325	٥	1,236	83	235	0	0	0	0
Motor Casalina Riandina Compania	. 0		0			0	121	0	0	121	8	0	0	0	0
Hotol Gasoline Clerching Compared Statement	1.572		0		0	0	9,347	105	682	8,560	754	0	0	0	0
Finshed Leaded Motor Gasoline	829		0			0	3,112	14	79	3,019	327	0	0	0	0
Finished Unloaded Motor Gasoline	743		0			0	6,235	91	603	5,541	427	0	0	0	0
Finished Aviation Gasoline	0		٥			0	127	0	89	88	8	0	0	0	0
Naohtha-Tyne let Fiel	8		0			0	75	14	0	6	0	0	0	0	0
Kemsene-Twe let Filel	147		0			0	2,307	165	508	1,634	353	0	0	0	0
Korosono	60		0			0	မ	0	0	31	0	0	0	0	0
Distillate Fiel Oil	745		0			0	2,914	278	405	2,231	238	0	0	0	0
Residual Fuel Oil	0		0			0	374	0	92	279	0	0	0	0	0
Nanhtha and Other Oils for Petro. Feed. Use	43		0			0	တ	٥	0	6	5	0	0	0	0
Special Narhthas	0		0			0	369	35	267	29	194	0	0	0	0
Libricants	14		0			0	553	0	434	119	227	108	0	0	0
Waxes	0		0			0	52	0	25	0	42	0	0	0	0
Asnhalt and Boad Oil	0		0			0	5	0	15	36	527	0	0	0	0
Miscellaneous Products	73	88	0	10		0	29	0	24	35	9	0	0	0	0
Total	2,714	409	٥	627	178	119	18,255	297	4,188	13,470	3,688	108	3,465	0	13,331

Table 29. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker and Barge between PAD Districts, August 1984 (Thousand Barrels)

	Ы	PAD District I	-	PAI	PAD District II	=	PAÍ	PAD District III		PAI	PAD District IV	2	PA	PAD District V	
Commodity	Receipts into PADD 1	Ship- ments from PADD 1	Net Receipts PADD I	Receipts into PADD II	Ship- ments from PADD II	Net Receipts PADD II	Receipts into PADD III	Ship- ments from PADD III	Net Receipts PADD III	Receipts into PADD IV	Ship- ments from PADD	Net Receipts PADD 1	Receipts into PADD V	Ship- ments from PADD V	Net Receipts PADD V
Crude Oil (Tanker and Barge only)	3,896	74	3,822	1,000	0	1,000	13,331	1,357	11,974	0	0	0	0	16,796	-16,796
Petroleum Products	76,872	9,579	67,293	44,619	14,011	30,608	10,096	109,697	-99,601	2,286	3,723	-1,437	3,137	0	3,137
Pentanes Plus	0	0	•	1,519	828	961	978	1,422	444	0	217	-217	0	0	0
Liquefied Petroleum Gases	2,781	0	2,781	8,516	6,034	2,482	5,869	9,915	4,046	KS	1,272	-1,217	0	0	0
Unfinished Oils	1,325	119	1,206	245	119	126	109	1,560	-1,451	0	0	0	119	0	119
Motor Gasoline Blending Components	12	0	121	8	0	8	0	204	-204	0	0	0	0	0	0
Aviation Gasoline Blending Components		0	0	0	0	0	0	0	0	0	0	0	0	0	,0
Finished Motor Gasoline	46,184	6,275	39,909	21,757	4,580	17,177	1,973	60,721	-58,748	1,404	1,402	2	1,660	0	1,660
Finished Leaded Motor Gasoline	16,343	3,085	13,258	10,843	2,038	8,805	915	23,782	-22,867	737	873	-136	940	٥	940
Finished Unleaded Motor Gasoline	29,841	3,190	26,651	10,914	2,542	8,372	1,058	36,939	-35,881	299	523	138	. 720	0	720
Finished Aviation Gasoline	137	0	137	162	27	135	0	88	-299	27	0	27	0	0	0
Naphtha-Type Jet Fuel	435	161	274	154	140	7	23	99	4	0	173	-173	325	0	325
Kerosene-Type Jet Fuel	8,682	250	8,432	2,865	669	2,166	2	11,462	-11,441	260	82	478	365	0	365
Kerosene	122	24	86	54	0	7	0	2	-122	0	0	•	0	0	0
Distillate Fuel Oil	15,247	2,453	12,794	8,203	1,023	7,180	546	20,743	-20,197	240	277	-337	200	0	560
Residual Fuel Oil	435	0	435	0	66	66-	38	374	939	0	0	0	0	0	0
Naphtha and Other Oils for Petro.															
Feedstock Use	37	₹	φ	23	58	52	0	19	-19	0	Ο.	0	0	0	0
Special Naphthas	369	0	369	194	0	194	0	563	-563	0	0	0	0	0	0
Lubricants	633	29	574	241	169	22	134	888	-754	0	0	0	108	0	108
Waxes	52	0	22	5	0	45	0	97	-97	0	0	0	0	0	0
Asphalt and Road Oil	243	116	127	527	192	335	116	578	462	0	0	0	0	0	0
Miscellaneous Products	69	79	-10	સ	43	-12	91	69	22	0	0	0	0	0	0
Total All Products	80,768	9,653	71,115	45,619	14,011	31,608	23,427	23,427 111,054	-87,627	2,286	3,723	-1,437	3,137	16,796	-13,659
Source: See Explanatory Notes on Data Collection and Estimation.	ion and E	stimation.													

Table 30. Production of Residual Fuel Oil by Sulfur Content, August 1984 (Thousand Barrels)

	A	D District	_		PA	D District	11				PAD D	District III			PAD	PAD	
		Appala-	ľ	Appala-	1	Minn.,	Okla.				La.				Dist. IV	Dist. V	United
Commodity	Coast chian To	chian #1	酉	chian #2		Wisc., Daks.	Kans., Mo.	Total	Inland	Gulf	Gulf	Ark.	Mexico	Total	Rocky Mt.	West	States
lesiduai Fuel Oil	3,904	45	3,949	75	1,379	198	280	1,932	755	5,099	2,659	243	6	8,765	200	10,189	25,035
0.00 to 0.30% Sulfur	763	18	781	0	81	4	0	82	9	218	401	98	9	814	8	454	2,198
0.31 to 1.00% Sulfur	2,830	8	2,832	S	311	0	=	472	515	859	1,096	90	0	2,530	2	2,761	8,645
Greater Than 1,00% Sulfur		25	336	25	987	194	169	1,375	149	4.052	1.162	55	e	5.421	86	6.974	14.192

Source: See Explanatory Notes on Data Collection and Estimation.

Table 31. Stocks of Residual Fuel Oil by Sulfur Content, August 1984 (Thousand Barrels)

	bA	PAD Distric	1		PA	PAD District I	=	_			PAD District 1	strict III				PAD	
Commodity	East Coast	East Appala- Coast #1	Total	Appala- chian #2	III, Ky.	Minn., Wisc., Daks.	Okla., Kans., Mo.	Total	Texas Inland	Texas Gulf Coast	La. Gulf Coast	No. La., Ark.	New Mexico	Total	1.	Dist. V West Coast	United States
Residual Fuet Oil – 0.00 to 0.30% Sultur Refinery Bulk Terminal Total	35E	8 1 I	376 3.656 4,032	. 11	113	თ 	0	41 136 177	1 1	67	276	1	† 5	482 1 483	120 0 120	219 0 219	1,238 3,793 5,031
Residual Fuel Oil – 0.31 to 1.00% Sulfur Refinery Bulk Terminal Total	1,350	9	1,355 6,486 7,841	14 - 1	502	0	1 1	667 378 1,045	8 1	22 1	1,483	811	0	2,368 1,040 3,408	132 0 132	1,940 430 2,370	6,462 8,334 14,796
Residual Fuel Oil – Greater than 1.00% Sulfur Refinery — Bulk Terminal — Total — Total	899	1	717 9,289 10,006	m ا ا	952	. 1 1	8	1,285 1,135 2,420	151	2,797	947	₄	œ ا ا	3,977 1,342 5,319	280 0 280	4,868 1,815 6,683	11,127 13,581 24,708

Source: See Explanatory Notes on Data Collection and Estimation.

— Not Applicable

Table 32. Movements of Residual Fuel Oil by Tanker and Barge between PAD Districts, by Sulfur Content, August 1984 (Thousand Barrels)

	L.	rom I to		ű.	From II to				From III to	II to				From V to	
Commodity	=	=	>	_	⊒ .	>	-	New Eng	Cent	Low	=	۸	1	=	≡
Residual Fuel Oil	0000	0000	0000	0 0 0 19	38	0000	374 0 0 374	0000	95 0 95 95	279 0 0 279	0000	0000	0000	0000	0000

Source: See Explanatory Notes on Data Collection and Estimation.

Table 33. Imports of Residual Fuel Oil by Sulfur Content by Country of Origin, August 1984 (Thousand Barrels)

		Residua	Residual Fuel Oil	
Country	0.00 to 0.30%	0.31 to 1.00%	Greater Than 1.00%	Total
Arab OPEC				
Algeria	1,752	0	0	1,752
Iraq	0	0	0	0
Kuwait	00	00	00	00
Oatar	9 6	.	-	.
Saudi Arabia	. 0	. 0	. 0	. 0
United Arab Emirates	1753	00	00	0 0
Subtotal Arab OPEC	1,752	-	-	1,752
Other OPEC				
Ecuador	179	0	354	533
Gabon	0 99	0 6	0 1	0 126
	300	ò	- C	60
Nīģeria	53	0	0	163
Venezuela	(s)	0 (1,772	1,773
Subtorial Other Orec	400,1	%	2,133	3,224
Other				
Angola	0 (241	0	241
Australia	0 900	114		115
BarairasRolivia	9 6	321	> C	
Brazi	. 946	0		946
Brunei	0	0	0	0
Canada	48	193	284	524
Congo	00	201	0	501
France	o	9 0	o c	
Ghana	131	0	0	131
Liberia	0	0	0	0
Malaysia Maxiro	0 ←	5 C	o 4	0 ų
Netherlands	0	• •	} •	3 0
Netherlands Antilles	1,161	224	3,156	4,541
Norway	0 (0 (0 (0
People's Republic of China	> 0	00	00	-
	. 0	0	0	0
Puerto Rico	0	0	O	0
Romania	0 (0 (0 (0
Spain	> C	> C	-	0 0
Trindad	• •	• •	> C	.
Tunisia	0	0	0	0
United Kingdom	0	0	0	0
Virgin Islands	513	2,034	1,533	4,081
Tugoslavia	5 0	5 6	0 (0
7 All 8	5	>	ס	o

See footnotes at end of table.

Table 33. imports of Residual Fuel Oil by Sulfur Content by Country of Origin, August 1984 (Thousand Barrels) (continued)

		Residua	Residual Fuel Oil	
Country	0.00 to 0.30%	0.31 to 1.00%	Greater Than 1.00%	Total
Other Western Hernisphere	, o	0		
Other Eastern HemisphereSubtotal Other	1,283	387 3,716	23 5,022	9 1,693 12,753
Total Imports	6,772	3,802	7,155	17,729

Table 34. Imports of Residual Fuel Oil by Sulfur Content by State of Entry, August 1984 (Thousand Barrels)

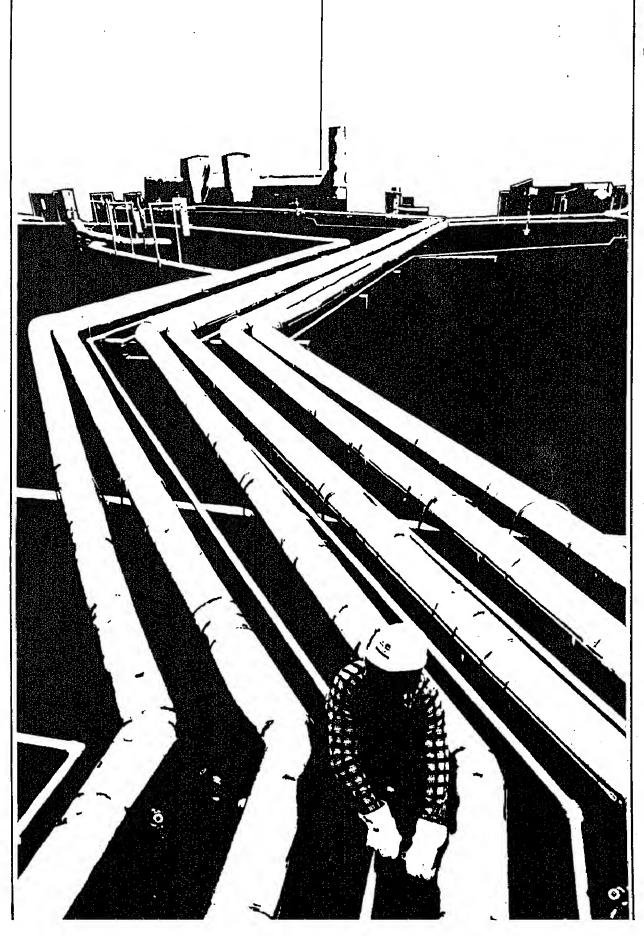
		Residua	Residual Fuel Oil	
State	0.00 to 0.30%	0.31 to 1.00%	Greater Than 1.00%	Total
PAD District I	4 947			
Connecticut		3,51	6,780	14,574
Florida	> <	224	0	224
Georgia	.	1,019	1,047	2.065
Maine	-	0	29	62
Maryland	> (0	529	529
Massachusetts	- §	0	372	372
New Hampshire	88 88 0	0	1,302	1,790
New Jersey	- 2	0	9	9
New York	663	513	935	2,112
North Carolina	2,348	1,115	841	4.304
Pennsulvania	0 ;	0	538	538
South Carolina	401	656	351	1 408
Vernort	0	20	308	359
Vertinia	∞ .	0	0) «
VII. 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/1	309	0	434	743
DAO Nietziet II				!
Michigan	Ξ:	0	-	12
Missone	(S)	0	0	: (S)
MARK Delate	7	0	, ,-	ď
Mail Dakola	4	0	(s)	ייי כ
				1
Original	2,542	0	332	2.874
Toyas	576	0	312	888
- CANAL AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	1,966		20	1,986
PAD District IV	-	c	•	•
Montana	-	0		6 0
× 10,000				o ·
California	<u>s</u>	225	98	261
House	0	0	ĸ	c.
Weekington	<u>(</u>	219	31	250
1018 III 1810 I	0	9	0	9
All PAD Districts	6.772	3 802	7 465	
	:	wards.	661,1	62/',1

(s) = Less than 500 barrels.

Note: Total may not equal sum of components due to independent rounding.

Source: See Explanatory Notes on Data Collection and Estimation.

⁽s) = Less than 500 barrels. Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.



Definitions of Petroleum Products and Other Terms

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group; CH-(CH)n-OH. Alcohol includes methanol and ethanol.

Alkylation. A refinery process for chemically combining isoparaffin with olefin hydrocarbons. The product, alkylate, has high octane value and is blended with motor and aviation gasoline to improve the antiknock value of the fuel.

API Gravity. An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; It may be calculated in terms of the following formula:

Deg API =
$$\frac{141.5}{\text{sp gr 60F/60F}}$$
 - 131.5

Aromatics. Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylene.

Asphalt. A dark-brown-to-black cement-like material containing bitumens as the predominant constituents, obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates biended with asphalt to make cutback asphalts. The conversion factor for asphalt is 5.5 barrels of 42 U.S. gallons per short ton.

ASTM. The acronym for the American Society for Testing and Materials.

Aviation Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished aviation gasoline.

Aviation Gasoline (Finished). All special grades of gasoline for use in aviation reciprocating engines, as given in ASTM Specification D910 and Military Specification MIL-G5572. Excludes blending components which will be used in blending or compounding into finished aviation gasoline.

Barrel. A volumetric unit of measure for crude oil and petroleum products equivalent to 42 U.S. gallons. This measure is used in most statistical reports. Factors for converting petroleum coke, asphalt and wax to barrels are given in the definitions for these products.

Barrels Per Calendar Day. See Operable Capacity.

Barrels Per Stream Day. See Operable Capacity.

Bi-Metallic. A term used to describe a type of catalyst. A catalystic process utilizing a catalyst comprised of two metals (e.g. platinum, rhenlum).

Butane. A normally gaseous straight-chain or branch-chain hydrocarbon. (C4H10). It is extracted from natural gas or refinery gas streams. It includes isobutane and normal butane and is covered by ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Isobutane. A normally gaseous branch-chain hydrocarbon, (C4H10). It is a colorless paraffinic gas that boils at a temperature of 10.9 degrees F. It is extracted from natural gas or refinery gas streams.

Normal Butane. A normally gaseous straight-chain hydrocarbon, (C4H10). It is a colorless paraffinic gas that boils at a temperature of 31.1 degrees F. It is extracted from natural gas or refinery gas streams.

Butylene. An olefinic hydrocarbon, (C4H8), recovered from refinery processes.

Catalytic Cracking. The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil.

Catalytic Hydrocracking. A refining process for converting middle boiling or residual material to high-octane gasoline, reformer charge stock, jet fuel and/or high grade fuel oil. Hydrocracking is an efficient, relatively low temperature process using hydrogen and a catalyst.

Catalytic Hydrotreating. A process for treating petroleum fractions (e.g. distillate fuel oil and residual oil) and unfinished oils (e.g. naphthas, reformer feeds and heavy gas oils) in the presence of catalysts and substantial quantities of hydrogen to upgrade their quality.

Catalytic Reforming. The use of controlled heat and pressure with catalysts to effect the rearrangement of certain hydrocarbon molecules without altering their composition appreciably; the conversion of low-octane gasoline fractions into higher octane stocks suitable for blending into finished gasoline; also the conversion of naphthas to obtain a more volatile product of higher octane number.

Conventional. A term used to describe a type of catalyst. A catalytic process utilizing a catalyst comprised of a metal and a non-metal (e.g. platinum, alumina).

Coal. A generic term applied to carbonaceous rocks that were formed by the partial or complete decomposition of vegetation. These stratifed carbonaceous rocks are either solid or brittle and are highly combustible. In-

cludes lignite, bituminous coal, and anthracite which conform to ASTM Specification D388.

Crude Distillation. The refining process of separating crude oil components by heating and subsequent condensing of the fractions by cooling.

Crude OII (Including Lease Condensate). A mixture of hydrocarbons that existed in ilquid phase in underground reservoirs and remains ilquid at atmospheric pressure after passing through surface separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, glisonite and oil shale. Drip gases are also included, but topped crude oil (residual) oil and other unfinished oils are excluded. Liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded where identifiable. Crude oil is considered as either domestic or foreign according to the following:

Domestic. Crude oil produced in the United States or from its "outer continental shelf" as defined in 43 U.S.C. 1331.

Foreign. Crude oil produced outside the United States. Imported Athabasca hydrocarbons are included.

Delayed Coking. A process to produce low Conradson carbon gas oil for catalytic cracking feedstock and for gasoline.

Distillate Fuel Oll. A general classification for one of the petroleum fractions produced in conventional distillation operations. It is used primarily for space heating, on-and-off-highway diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and electric power generation. Included are products known as No. 1, No. 2, and No. 4 fuel oils; No. 1, No. 2, and No. 4 diesel fuels.

No. 1 Fuel OII. A light distillate fuel oil intended for use in vaporizing pot-type burners. ASTM Specification D396 specifies for this grade maximum distillation temperatures of 400 degrees F. at the 10-percent point and 550 degrees F. at the 90-percent point, and kinematic viscosities between 1.4 and 2.2 centistokes at 100 degrees F.

No. 2 Fuel OII. A distillate fuel oil for use in atomizing-type burners for domestic heating or for moderate capacity commercial-industrial burner units. ASTM Specification D396 specifies for this grade distillation temperatures at the 90-percent point between 540 degrees and 640 degrees F., and kinematic viscosities between 2.0 and 3.6 centistokes at 100 degrees F.

No. 1 and No. 2 Diesel Fuel Oils. Distillate fuel olis used in compression-ignition engines, as given by ASTM Specification D975:

No. 1-D. A volatile distillate fuel oil with a boiling range between 300-575 degrees F, and used in high-speed diesel engines generally operated under variations in speed and load, includes type C-B diesel fuel used for city buses and similar operations. Properties are defined in ASTM Specification D975.

No. 2-D. A gas oil type distillate of lower volatility with distillation temperatures at the 90-percent point between 540-640 degrees F. for use in high-speed diesel engines generally operated under uniform speed and load conditions. Includes Type R-R diesel fuel used for railroad locomotive engines, and Type T-T for diesel-engine trucks. Properties are defined in ASTM Specification D975.

No. 4 Fuel Oil. A fuel oil for commercial burner Installations not equipped with preheating facilities. It is used extensively in industrial plants. This grade is a blend of distillate fuel oil and residual fuel oil stocks that conforms to ASTM Specification D396 or Federal Specification VV-F-815C; its kinematic viscosity is between 5.8 and 26.4 centistokes at 100 degrees F. Also included is No. 4-D, a fuel oil for lowand medium-speed diesel engines that conforms to ASTM Specification D975.

Eastern Hemisphere. That half of the earth east of the Atlantic Ocean which includes Europe, Asia, Africa and Australia. The Hawallan Foreign Trade Zone is in this hemisphere.

Electric Energy (Purchased). Electricity purchased for refinery operations that is not produced within the refinery complex.

Ethane. A normally gaseous straight-chain hydrocarbon, (C2H6). It is a coloriess paraffinic gas that boils at a temperature of -127.48 degrees F. it is extracted from natural gas and refinery gas streams.

Ethylene. An olefinic hydrocarbon, (C2H4), recovered from refinery processes or petrochemical processes.

Field Production. Represents crude oil production on leases, natural gas ilquids production at natural gas processing plants, and new supply of other hydrocarbons and alcohol.

Fluid Coking. A thermal process utilizing the fluidizedsolids technique for continuous conversion of heavy, low-grade oils into lighter products.

Gasohol. See Motor Gasoline (Finished).

Gas Oll. A ilquid petroleum distiliate having a viscosity intermediate between that of kerosene and lubricating oll. Derives its name from having originally been used in the manufacture of illuminating gas. Now supplies distiliate-type fuel oils and diesel fuel, also cracked to produce gasoline.

Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished aviation or motor gasoline.

idle Capacity. The component of operable capacity that is not in operation and not under active repairs, but capable of being placed in operation within 30 days; and capacity not in operation but under active repairs that can be completed within 90 days.

Imported Crude Oil Burned As Fuel. The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. Imported crude oil burned as fuel includes lease condensate and liquid hydrocarbons produced from tar sand oil, gilsonite, and shale oil.

Isobutane, See Butane.

isomerization. A refining process which alters the fundamental arrangement of atoms in the molecule. Used to convert normal butane into isobutane, an alyklation process feedstock, and normal pentane and hexane into isopentane and isohexane, high-octane gasoline components.

Kerosene. A petroleum distillate that boils at a temperature between 300-550 degrees F., that has a flash point higher than 100 degrees F. by ASTM Method D56, that has a gravity range from 40-46 degrees API, and that has a burning point in the range of 150-175 degrees F. included are the two classifications recognized by ASTM D3699: No. 1-K and No. 2-K, and all grades of keresene called range or stove oil which have properties similar to No. 1 fuel oil, but with a gravity of about 43 degrees API and a maximum end-point of 625 degrees F. Kerosene is used in space heaters, cook stoves, and water heaters and is suitable for use as an Illuminant when burned in wick lamps.

Kerosene-Type Jet Fuel. A quality kerosene product with an average gravity of 40.7 degrees API, and a 10 percent distillation temperature of 400 degrees F. It is covered by ASTM Specification D1655 and Military Specification MiL-T-5624L (Grades JP-5 and JP-8). A relatively low-freezing point distillate of the kerosene type; it is used primarily for commercial turbojet and turboprop aircraft engines.

Lease Condensate. A natural gas Ilquid recovered from gas well gas (associated and nonassociated) in lease separators or natural gas field facilities. Lease condensate consists primarily of pentanes and heavier hydrocarbons.

Liquefied Petroleum Gases (LPG). Ethane, Ethylene, propane, propylene, normal butane, butylene, and Isobutane produced at refinerles or natural gas processing plants, including plants that fractionate raw natural gas plant liquids.

Liquefied Refinery Gases (LRG). Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/ or refrigeration they are retained in the liquid state. The reported categories are ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane. Excludes still gas used for chemical or rubber manufacture which is reported as a petrochemical feedstock and also excludes liquefied petroleum gases intended for blending into gasoline which are reported as gasoline blending components. Liquefied refinery gases are reported for use as petrochemical feedstock or other uses.

Lubricating Oils. A substance used to reduce friction between bearing surfaces. Petroleum lubricants may be produced either from distillates or residues. Other substances may be added to Impart or improve certain required properties. "Lubricants" includes all grades of lubricating oils from spindle oil to cylinder oil and those used in greases. The three categories include:

Bright Stock. A refined, high viscosity lubricating oil base stock that is usually made from a residuum by a treatment such as deasphalting, acid treatment, or solvent extraction.

Neutral. A distillate lubricating oll base stock with a viscosity that is usually not above 550 Saybolt Universal Seconds (SUS) at 100 degrees F. It is prepared by a treatment such as hydrofining, acid treatment, or solvent extraction.

Other. A lubricating oil base stock used in finished lubricating oils and greases, including black, coastal, and red oils.

Middle Distillates. A general classification that includes distillate fuel oil and kerosene.

Miscellaneous Products. Includes all finished products not classified elsewhere, e.g., petrolatum, absorption olls, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, speciality oils and medicinal oils.

Motor Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished motor gasoline. Pool gasoline is included in this category.

Motor Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, that have been blended to form a fuel suitable for use in spark-ignition engines. Specifications for motor gasoline, as given in ASTM Specification D439 or Federal Specification VV-G-1690B, include a boiling range of 122-158 degrees F. at the 10-percent point to 365-374 degrees F. at the 90-percent point and a Reid vapor pressure range from 9 to 15 psi. "Motor gasoline" includes finished leaded gasoline, finished unleaded gasoline, and gasohol. Blendstock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Finished Leaded Gasoline. Contains more than 0.05 gram of lead per gallon or more than 0.005 gram of phosphorus per gallon. The actual lead content of any given gallon, however, may vary as a function of the size of the producer and company according to specific Environmental Protection Agency waiver provisions. Premlum and regular grades are included, depending on the octane rating. Includes leaded gasohol. Blendstock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Finished Unleaded Gasoline. Contains not more than 0.05 gram of lead per gallon and not more than 0.005 gram of phosphorus per gallon. Premlum and regular grades are included, depending on the octane rating. Includes unleaded gasohol. Biend stock is excluded until biending has been completed. Alcohol that is to be used in the biending of gasohol is also excluded.

Gasohol. A blend of finished motor gasoline (leaded or unleaded) and alcohol (generally ethanol but sometimes methanol) in which 10 percent or more of the product is alcohol.

Naphtha-Type Jet Fuel. A fuel in the heavy naphtha boiling range with an average gravity of 52.8 degrees API and 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees F, meeting Military Specification MIL-T-5624L (Grade JP-4). JP-4 is used for turbojet and turboprop aircraft engines, primarily by the military. Excludes ram-jet and petroleum rocket fuels.

Natural Gas. A mixture of hydrocarbons and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in underground reservoirs.

Natural Gas Field Facility. A fleid facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some fleid facilities are designed to recover propane, normal butane, pentanes plus, etc., and to control the quality of natural gas to be marketed.

Natural Gas Plant Liquids. Natural gas liquids recovered from natural gas in gas processing plants, and in some situations, from natural gas field facilities. Natural gas liquids extracted by fractionators are also included. These liquids are defined according to the published specification of the Gas Processors Association and the American Society for Testing and Materials and are classified as follows: Ethane, propane, normal butane, isobutane, pentanes plus, and other products from natural gas processing plants (i.e. products meeting the standards for finished petroleum products produced at natural gas processing plants, such as finished motor gasoilne, finished aviation gasoline, special naphthas, kerosene, distillate fuel oil, and miscellaneous products).

Natural Gasoline and Isopentane. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane which is a saturated branch-chain hydrocarbon, (C5H12), obtained by fractionation of natural gasoline or isomerization of normal pentane.

Normal Butane. See Butane.

OPEC. The acronym for the Organization of Petroleum Exporting Countries, oil-producing and exporting countries that have organized for the purpose of negotiating with oil companies on matters of oil production, prices and future concession rights. Current members are Algeria, Ecuador, Gabon, indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela.

Operable Capacity. The amount of capacity that, at the beginning of the period, is in operation; not in operation, and not under active repairs but capable of being placed in operation within 30 days; or not in operation but under active repairs that can be completed within 90 days. Operable capacity is the sum of the operating and idle capacity and is measured in barrels per calendar day or barrels per stream day.

Barrels Per Calendar Day. The maximum number of barrels of input that can be processed in an atmos-

pheric distillation facility during a twenty-four hour period after making allowances for the following limitations:

The capability of downstream facilities to absorb the output of crude oil processing facilities of a given refinery. No reduction is made when a planned distribution of intermediate streams through other than downstream facilities is part of a refinery's normal operation.

The types and grades of Inputs to be processed.

The types and grades of products expected to be manufactured.

The environmental constraints associated with refinery operations.

The reduction of capacity for scheduled downtime such as routine inspection, mechanical problems, maintenance, repairs and turnaround.

The reduction of capacity for unscheduled downtime such as mechanical problems, repairs, and slowdowns.

Barrels Per Stream Day. The amount a unit can process running at full capacity under optimal crude and product slate conditions.

Operating Capacity. The component of operable capacity that is in operation at the beginning of the period.

Other Hydrocarbons. Materials received by a refinery and consumed as raw materials. Includes hydrogen, coal tar derivatives, glisonite, and natural gas received by the refinery for reforming into hydrogen. Natural gas to be used as fuel is excluded.

Pentanes Plus. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline and plant condensate.

Petrochemical Feedstock Use. Chemical feedstocks derived from petroleum, principally for the manufacture of chemicals, synthetic rubber and a variety of plastics. The categories reported are "Naphtha-Less than 400 degrees F. end-point" and "Other oils over 400 degrees F. end point."

Naphtha Less Than 400 Degrees F. End-Point. A naphtha with an end point of less than 400 degrees F. that is intended for use as a petrochemical feed-stock.

Other Olls-Over 400 Degrees F. End-Point. Oils with an end point over 400 degrees F. that is intended for use as a petrochemical feedstock.

Petroleum Coke. A residue, the final product of the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion factor is 5 barrels of 42 U.S. galions per short ton.

Marketable Coke. Those grades of coke produced in delayed or fluid cokers which may be recovered as relatively pure carbon. This "green" coke may be sold as is or further purified by calcining.

Catalyst Coke. In many catalytic operations (i.e., catalytic cracking) carbon is deposited on the catalyst thus, deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refinery process. This carbon or coke is not recoverable in a concentrated form.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas and other hydrocarbon compounds. Petroleum products include unfinished oils, ilquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, naphtha iess than 400 F. end-point, other oilsover 400 F. end-point, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Petroleum Refinery. An Installation that manufacturers finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

Plant Condensate. One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas injet separators or scrubbers in processing plants.

Primary Stocks. Stocks of crude oil or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tankfarms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oil that is in transit from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is included. Primary Stocks excludes stocks of foreign origin that are held in bonded warehouse storage.

Propane. A normally gaseous straight-chain hydrocarbon, (C3H8). It is a colorless paraffinic gas that bolls at a temperature of -43.67 degrees F. It is extracted from natural gas or refinery gas streams. It includes all products covered by Gas Processors Association Specifications for commercial propane and HD-5 propane and ASTM Specification D1835.

Propylene. An olefinic hydrocarbon, (C3H6), recovered from refinery processes or petrochemical processes.

Residual Fuel Oil. The topped crude of refinery operations which Includes No. 5 and No. 6 fuel oils as defined in ASTM Specification D396 and Federal Specification VV-F-815C, Navy Special fuel oil as defined in Military Specification D396 and Federal Specification D396 and F

Road Oil. Any heavy petroleum oil, including residual asphaitic oil used as a dust paliative and surface treatment on roads and highways. It is generally produced in six grades from 0, the most iliquid, to 5, the most viscous.

Special Naphthas. All finished products within the gasoline range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point and have a boiling range of 90 degrees to 220 degrees F. "Special naphthas" includes all commercial hexane and cleaning solvents conforming to ASTM Specification D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

Steam (Purchased). Steam, purchased for use by a refinery, that was not generated from within the refinery complex.

Still Gas (Refinery Gas). Any form or mixture of gas produced in refinerles by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, propylene, etc. Still gas is reported for petrochemical feedstock use and/or refinery fuel use.

Petrochemical Feedstock Use. Includes all refinery streams which are used by chemical or rubber manufacturing operations for further processing, less the amount of such streams returned to the source refinery. Finished petrochemical products are not included. For example, polyethylene, butadlene, etc. are considered petrochemical products; therefore, only their feedstock equivalents are included.

Fuel Use. All other still gas.

Strategic Petroleum Reserve (SPR). Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Thermai Cracking. A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking is used to increase the yield of gasoline obtainable from crude oil.

Unfinished Oils. Includes all oils requiring further processing, except those requiring only mechanical blending

Unfractionated Streams. Mixtures of unsegregated natural gas liquid components excluding those in plant condensate. This product is extracted from natural gas.

Vacuum Distillation. Distillation under reduced pressure (less the atmospheric) which lowers the bolling temperature of the liquid-being distilled. This technique with its relatively low temperatures prevents cracking or decomposition of the charge stock.

Visbreaking. A thermal cracking process in which heavy vacuum-still bottoms produced on the primary distillation unit are cracked to increase production of distillate products.

Wax. A solid or semi-solid material derived from petroleum distillates or residues by such treatments as chiliing, precipitating with a solvent, or de-oiling. It is lightcolored, more-or-less translucent crystalline mass, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Includes all marketable wax whether crude scale or fully refined. The three grades included are microcrystalline, crystalline-fully refined, and crystalline-other. The conversion factor is 280 pounds per 42-U.S. gallon barrel.

Microcrystalline Wax. Wax extracted from certain petroleum residues having a finer and less apparent crystalline structure than paraffin wax and having the following physical characteristics:

Penetration at 77 degrees F. (D1321)-60 maximum. Viscosity at 210 degrees F. in Saybolt Universal Seconds (SUS). (D88)-60 SUS (10.22 centistokes) minimum to 150 SUS (31.8 centistokes) maximum. Oil content (D721)-5 percent minimum.

Crystalline-Fully Refined Wax. A light-colored paraffin wax having the following characteristics:

Viscosity at 210 degrees F. (D88)-59.9 SUS (10.18 centistokes) maximum. Oli Content (D721)-0.5 percent maximum. Other +20 color, Saybolt minimum.

Crystalline-Other Wax. A paraffin wax having the following characteristics:

Viscosity at 210 degrees F. (D88)-59.9 SUS (10.18 centistokes) maximum. Oil Content (D721)-0.51 percent minimum to 15 percent maximum.

Western Hemisphere. That half of the earth that includes North and South America and adjacent Islands.

Bureau of Mines Petroleum Refining Districts and PAD Districts

The following are the Bureau of Mines petroleum refining districts which make up the PAD districts:

PAD District I

East Coast: District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

Appalachian #1: The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

PAD District II

Appalachian #2: The following counties of the State of Ohio: Erie, Huron, Crawford, Marlon, Delaware, Franklin, Pickaway, Ross, Pike, Scioto, and all counties east thereof.

indiana—Illinois—Kentucky: The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and that part of the State of Ohlo not Included in the Appaiachian District

Minnesota—Wisconsin—North and South Dakota: The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

Oklahoma—Kansas—Missouri: The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

PAD District III

Texas Inland: The State of Texas except the Texas Gulf Coast District.

Texas Gulf Coast: The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patriclo, Nueces, Kleberg, Kenedy, Williacy, and Cameron.

Louisiana Guif Coast: The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and ail Parishes south thereof. Also the following counties of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alabama: Mobile and Baldwin.

North Louisiana—Arkansas: The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Guif Coast District

New Mexico: The State of New Mexico.

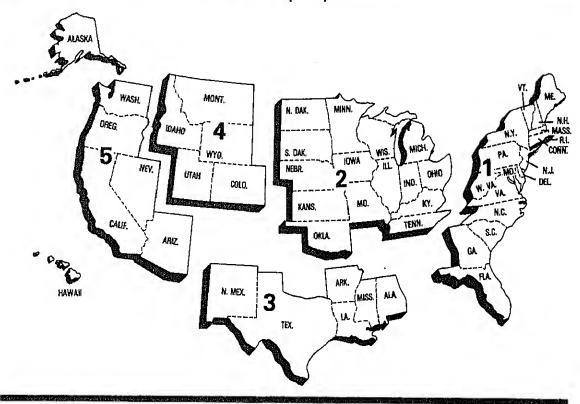
PAD District IV

Rocky Mountain: The States of Montana, Idaho, Wyoming, Utah, and Colorado.

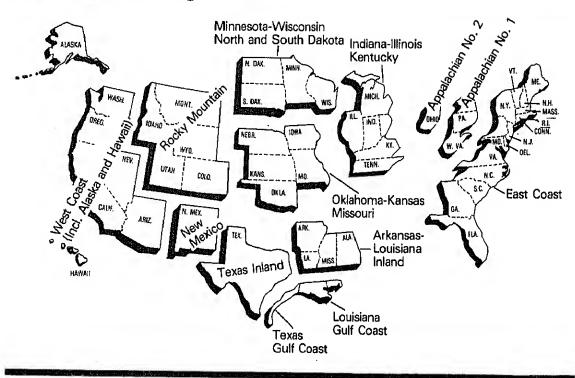
PAD District V

West Coast: The States of Washington, Oregon, Callfornia, Nevada, Arizona, Alaska, and Hawaii.

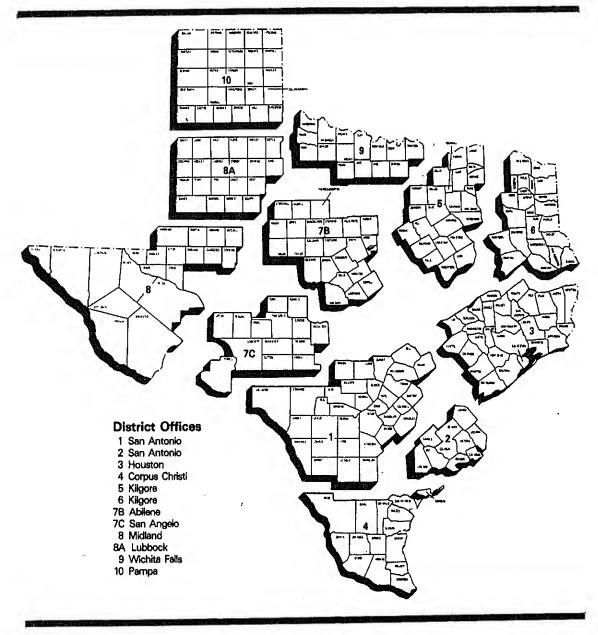
Petroleum Administration for Defense (PAD) Districts



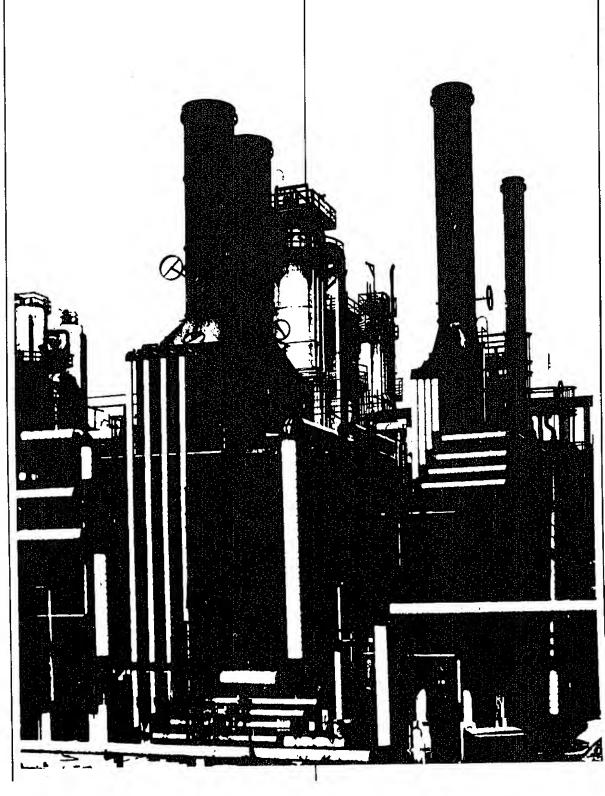
Bureau of Mines Refining Districts

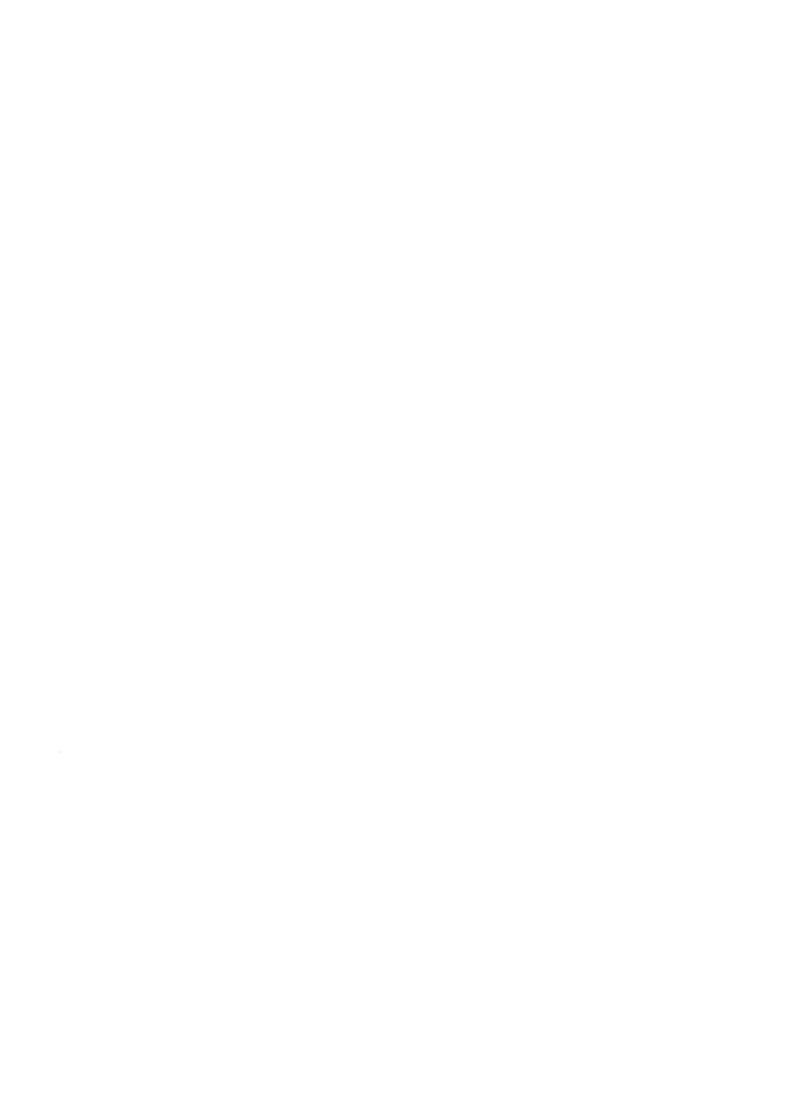


District Map Oil and Gas Division Railroad Commission of Texas









Explanatory Notes

Note 1: Data Collection Methodology

Background

Beginning in January 1983, the Energy information Administration (EIA) unified its petroleum supply data collection activities into the Petroleum Supply Reporting System (PSRS). The PSRS represents a family of data collection survey forms, data processing systems and publication systems that have been consolidated to achieve comparability and consistency throughout. The primary focus of the consolidation has been to revise the weekly and monthly survey reporting forms to assure consistency in form layout, preparation instructions, and definitions. As a result, a new set of survey forms were implemented in January 1983. The following are the new form numbers and their corresponding predecessor forms:

New Form Number EIA-800	Name Weekly Refinery Re-	Old Form Number EIA-161
EIA-801	port Weekly Bulk Terml- nal Report	EIA-162
EIA-802	Weekly Product Pipe- line Report	EIA-163
EIA-803	Weekly Crude OII Stocks Report	EIA-164
EIA-804	Weekly Imports Report	EIA-165
EIA-805	Weekly Shipments- from Puerto Rico to the United States Report	_
EIA-810	Monthly Refinery Report	EIA-87
EIA-811	Monthly Bulk Termi- nal Report	EIA-88
EIA-812	Monthly Product Pipeline Report	EIA-89
EIA-813	Monthly Crude Oil Re-	EIA-90
ERA-60	Monthly Imports Report	ERA-60
EIA-815	Monthly Shipments from Puerto Rico to the United States Report	FEA-P133- M-0
EIA-816-	Monthly Natural Gas Liquids Report	EIA-64
EIA-817	Monthly Tanker and Barge Movement Report	EIA-170

Forms EIA-800 through 805 comprise the Weekly Petroleum Supply Reporting System (WPSRS). This system is designed to collect basic refinery operations and product stock data for major products on a weekly basis. Data from the WPSRS are published in the Weekly Petroleum Status Report (WPSR) and are also used to calculate the preliminary statistics in the "Summary Statistics" section of the Petroleum Supply Monthly

(PSM). A description of the WPSRS survey forms follows in Note 1.1.

Forms EIA-810-813, 815-817 and ERA-60 comprise the Monthly Petroleum Supply Reporting System (MPSRS). These surveys collect detailed refinery operations data, refinery, bulk terminal and pipeline stocks data, crude oil and petroleum product imports data and movements of petroleum products and crude oil between PAD Districts data. These surveys are the primary source of data for the "Summary Statistics" and "Detailed Statistics" sections of the *PSM*. A description of MPSRS survey forms follows in Note 1.2.

Data are also obtained in magnetic tape form from the Bureau of the Census on a monthly basis. These tapes contain aggregated import and export statistics that are used in the preparation of the *PSM*. A description of the Census data follows in Note 1.3.

Note 1.1: Weekly Petroleum Supply Reporting System (WPSRS)

Background

The EIA first began publishing weekly petroleum supply statistics in April 1979 in response to the iranian oil crisis. Initially, the published data were taken from the American Petroleum Institute (API) Weekly Statistical Bulletin. However, in January 1980 the EIA began to publish weekly statistics from its own surveys, with the exception of imports statistics which the EIA did not begin collecting until June 1980.

The weekly surveys collect data comparable to those collected on a monthly basis. Selected petroleum companies report weekly data to the EIA on crude oil and petroleum product stocks, refinery inputs and production, and crude oil and petroleum product imports. On Forms EIA-800 through EIA-803, companies report data on a custody basis. On the Form EIA-804, the importer of record reports each shipment entering the United States. On Form EIA-805, a company shipping unfinished oils and finished petroleum products into the United States from Puerto Rico reports each shipment. Current weekly data and the most recent monthly data are used to estimate the totals that are published in the Weekly Petroleum Status Report.

Sample Frame

The sample of companies that report weekly is selected from the universe of companies that report on the comparable monthly surveys. Sampled companies report data only for facilities in the 50 States and District of Columbia.

The sample for each survey is taken from the following universe:

EIA-800: Based on the EIA-810 universe, which Includes all petroleum refinerles in the United States and

Its territories, industrial facilities that have crude oil distillation capacity and produce some refined petroleum products, and plants that produce finished motor gasoline through mechanical blending. The selected sample size is 215.

EIA-801: Based on the EIA-811 universe, which includes all bulk terminal facilities in the United States and its territories that have either a total bulk storage capacity of 50,000 barrels or more, or that receive petroleum products by tanker, barge, or pipeline. The selected sample size is 93.

EIA-802: Based on the EIA-812 universe, which includes all petroleum product pipeline companies in the United States and its territories that transport refined petroleum products, including interstate, intrastate and intracompany pipeline movements. Pipeline companies that transport only natural gas liquids are not included in the EIA-802 frame. Only those pipeline companies that transport products covered in the weekly survey are included. The selected sample size is 65.

EIA-803: Based on the EIA-813 universe, which consists of all companies which carry or store crude oil of 1,000 barrels or more in the 50 States, and the District of Columbia. Included are gathering and trunk pipeline companies (Including Interstate, Intrastate, and Intracompany pipelines), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water.

EIA-804: Based on the ERA-60 universe, which includes all importers of record of crude oil and petroleum products into the United States and Puerto Rico. The selected sample size is 65.

EIA-805: Based on the EIA-815 universe, which includes all shippers of unfinished oils and petroleum products into the United States from Puerto Rico, Four companies report.

Sampling Method

The cut-off method is the sampling procedure used for all weekly surveys except the EIA-802, which uses the monthly universe in its entirety. In the cut-off method, companies are ranked from largest to smallest on the basis of the quantities reported during some previous 12-month period. Companies are chosen for the sampling, beginning with the largest and adding companies until the total sample covers 90 percent of the total for the previous time period for each product published in the Weekly Petroleum Status Report.

Collection Methods

Data are collected by mail, mallgram, telephone, Telex, and Telefax on a weekly basis. The report period closes each Friday at 7 a.m. All canvassed firms and terminal operations companies must file by 5 p.m. on the following Monday.

Estimation and Imputation

After company reports have been checked and entered into the weekly data base, weekly totals for given products are estimated by using the following formula.

The total reported by all companies for the most recent month (M_t) is divided by the amount reported by the sample of companies for the most recent month (M_s) . The result is multiplied by the amount reported by the sample of companies for the current week (W_s) . The answer, W_t , is an estimate of the amount that would have been reported by all companies for the current week if all companies reported each week.

$$W_t = \frac{M_t}{M_s} (W_s)$$

This procedure is used to estimate total weekly inputs to refineries and production.

To estimate stocks of finished products, the preceding procedure is followed separately for refineries, bulk terminals, and pipelines. Total estimates are formed by summing over establishment types.

Weekly Imports data are highly variable on a companyby-company basis or a week-by-week basis. Therefore, an exponentially smoothed ratio has been developed. The estimate of weekly imports is the sum of the smoothed ratio multiplied by the weekly values and estimates for shipments from Puerto Rico. Imports of other oils includes an adjustment from Census data for unlicensed products because of coverage differences between the monthly imports data and Census data.

Explicit imputation is done for companies which do not respond in a given week. The imputed values are exponentially smoothed means of recent reports from the specific company.

Response Rates

The response rate for the published estimates is usually between 95 and 98 percent.

Note 1.2: Monthly Petroleum Supply Reporting System (MPSRS)

Background

The MPSRS was implemented in January 1983 as the result of an extensive effort to integrate the collection and processing of petroleum supply data that have been collected on other survey forms for many years. The collection of monthly petroleum supply statistics began as early as 1918 when the Bureau of Mines (BOM) began collecting data on refinery operations and crude oll stocks and movements. The collection systems

were further expanded to Include natural gas plant liquids production and storage in 1925, imports of crude oil and petroleum products and storage and movements of petroleum products in 1959, and tanker and barge movements of crude oil and petroleum products in 1964. Since their inception, each survey has undergone numerous changes, but the MPSRS is the first effort to make them all consistent and comparable.

Respondent Frame

EIA-810: All petroleum refineries and plants that produce finished motor gasoilne through the mechanical blending of liquids which are operated or controlled in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, the Hawailan Foreign Trade Zone, and Guam. Approximately 313 respondents report on the EiA-810.

EiA-811: Ali bulk terminal facilities in the 50 States and the District of Columbia, Puerto Rico, and the Virgin Islands that (a) have a total bulk storage capacity of 50,000 barrels or more and/or (b) receive petroleum products by tanker, barge, or pipeline, regardless of ownership of the material. Approximately 328 respondents report on the EIA-811.

EIA-812: Ali products pipeline companies that carry petroleum products (including interstate, intrastate and intracompany pipelines) in the 50 States and the District of Columbia. Approximately 94 respondents report on the EIA-812.

EiA-813: All companies which carry or store crude oil of 1,000 barrels or more in the 50 States, and the District of Columbia. Included are gathering and trunk pipeline companies (including interstate, intrastate, and intracompany pipelines), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water.

EIA-815: All licensed importers and importers of record shipping petroleum products from Puerto Rico into the 50 States and the District of Columbia.

Import data from the ERA-60 and EIA-815 are integrated into the import statistics reported in the *PSM*.

EIA-816: All operators of facilities designed to extract liquid hydrocarbons from natural gas stream (natural gas processing plants) or to separate a hydrocarbon stream into its component products, i.e., propane, butane, natural gasoline, etc. (fractionators). Approximately 990 respondents report on the EIA-816.

EIA-817: All known companies and plants that have custody of crude oil and petroleum products transported by tanker and barge between PAD Districts or between PAD Districts and the Panama Canal. There are about 50 respondents.

ERA-60: All ilcensed importers and importers of record importing crude oil and petroleum products into the

United States and Puerto Rico. The respondent universe consisted of approximately 1,100 firms as of July 31, 1982. However, only a selected 250 importers must report each month regardless of import activity. All others must report only for a month in which they actually had imports. The respondent universe for this survey is updated whenever an import license is granted by the Office of Oil imports of the ERA.

EIA utilizes a number of sources and methods to maintain the survey respondent lists. On a regular basis, survey managers review industry publications such as the Oil and Gas Journal and LP Gas Almanac for information on facilities or companies going into operation or closing down. These are augmented by articles in newspapers, letters from respondents indicating changes in status and information received from survey systems operated by other offices.

Periodically an extensive survey study is conducted to completely refresh the frames. This involves consolidating information from every known source including State agencies, federal agencies (e.g., EPA, Corps of Engineers, Census Bureau, etc.), and private Industry directories. The effort also includes the evaluation of the impact of potential frame changes on the historical time series of data published from these respondents. The results of this frame study are usually implemented in January to provide a full year under the same frame.

Collection Methods

The data for all of the MPSRS surveys are collected monthly. Completed forms are required to be postmarked by the 20th day following the end of the report month, with the exception of the EIA-815 and ERA-60 which are due 15 work days following the end of the report month. Telephone follow-up calls are made to non-respondents prior to the publication deadline, for their data. An automated mailing list is maintained and is used to monitor receipt of the forms.

imputing Missing Data

imputation is performed only for nonresponding companies that submitted reports the previous month. For such companies, previous monthly values are used for current values. The previous month's ending stocks value is used for both the current month's beginning stocks and the current month's ending stocks. In the event that the previous month's data were estimated, the respondent is contacted and requested to submit estimates, if necessary, to be followed by submission of actual data. Data for nonrespondents on the EIA-815 and 817, and ERA-60 are not imputed.

Response Rates

As of the filing deadline, the response rates of the EIA-810 through EIA-813 respondents is over 90 per-

cent. The response rate for the EiA-816 is over 85 percent and for the EiA-817 it is 98 percent. All companies that have not responded are contacted by telephone. Although data are taken by telephone to expedite processing, a certified submission is still required. Names of companies that fall to file for 2 consecutive months are forwarded for further noncompliance action.

In July 1983, the ERA-60 survey had a response rate of 99.9 percent by the filing deadline. The universe was 1,100 firms at that time. (Because this is a dynamic survey, the universe is constantly changing.) Standard follow-up of nonrespondents is made to insure that all reports are received, since data are not imputed for nonrespondents. In addition, response is cross-checked with response on the Petroleum Licensing Decrementation System (PLDS), a listing of each month's importers. The response rate is generally 98 to 99 percent by the time the data are first published.

Note 1.3: Census Import (IM-145) and Export (EM-522 and EM-594) Data

Background

Each month the EIA purchases magnetic tapes of aggregated import and export statistics from the Bureau of the Census. These data provide the only source of export statistics and are used to augment the import data collected by the EIA. Export statistics and import data from the Census tapes on liquefled petroleum gases and bonded ship bunkers are published in the PSM.

Import Statistics (IM-145)

Coverage

The import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. Customs territory (the 50 States, the District of Columbia, and Puerto Rico), without regard to whether or not a commercial transaction is involved. In general, the statistics record the physical movement of merchandise into the United States from foreign countries, with the exception of the following types of transactions that are excluded from the statistics:

- Merchandise in-transit through the United States, when documented with Customs as an in-transit movement.
- 2. Shipments from anywhere to U.S. possessions and shipments from U.S. possessions to the United States. (U.S. possessions include Puerto Rico, the Virgin Islands, Guam, and American Samoa.)
- 3. U.S. merchandise that was held in foreign countries by the U.S. Armed Forces and is returned to the United States for the use of the Armed Forces.

Source of Import Information

The official U.S. Import statistics are complied by the Bureau of the Census from copies of the Import entry and warehouse withdrawal forms that importers are required by law to file with Customs officials (Customs Forms 7501, 7505, and 7506).

imported petroleum is reported as *imports for Consumption*. Imports for consumption are a combination of entries for immediate consumption and withdrawals from warehouses for consumption. With certain exceptions as indicated above, these data generally reflect the total of commodities entered into U.S. consumption channels.

Country and Area of Origin

The country reported in the statistics as the country of origin is defined as the country where the merchandise was grown, mined, or manufactured. In instances where the country of origin cannot be determined, the transactions are credited to the country of shipment.

Export Statistics (EM-522 and EM-594)

Coverage

The export statistics reflect both government and nongovernment exports of domestic and foreign merchandise from the U.S. Customs territory (the 50 States, the District of Columbia, and Puerto Rico) to foreign countries, without regard to whether or not the exportation involves a commercial transaction. In general, the statistics record the physical movement of merchandise out of the United States to foreign countries, with the exception of the following types of transactions:

- 1. All shipments from U.S. possessions, regardless of whether the shipments are sent to the United States, to other U.S. possessions, or to foreign countries.
- 2. Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

Source of Export Information

The official U.S. export statistics are compiled by the Bureau of the Census primarily from copies of Shipper's Export Declarations. Exporters are required to file Shipper's Export Declarations with Custom's officials. The only exceptions are those exporters who have been authorized to submit data directly to the Bureau of Census on magnetic tape, punched cards, or monthly Shipper's Summary Export Declarations.

Country and Area of Destination

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

Note 2: Supply

The components of petroleum supply are field production, refinery production, imports, and stock withdrawal or addition:

Field Production is the sum of crude oil production (including lease condensate), natural gas processing plant production, and new supply (field production) of other liquids used by refineries.

Crude oil production is estimated based on data received from State conservation and revenue agencies. For further explanation, see Explanatory Note 3.

Fleid production of natural gas plant liquids (NGPL), including finished petroleum products, is reported monthly on survey Form EiA-816, Monthly Natural Gas Liquids Report. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. For survey description and other detail, see Explanatory Note 1.2.

Refinery Production of petroleum products is reported monthly on survey Form EIA-810, Monthly Refinery Report. Published production of these products equals refinery production minus refinery input. Refinery production of unfinished oils and of motor and aviation gasoline blending components appears on a net basis under refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month.

imports of crude oil and petroleum products are reported monthly on Form ERA-60, Report of Oil Imports Into the United States and Puerto Rico, and Form EIA-815, Shipments of Refined Products (Including Unfinished Oils) from Puerto Rico to the United States. In addition, the Census Bureau Tabulation IM-145 summarizes import data from Customs import declarations reported on Customs Forms 7501, 7505, and 7506. The most prominent difference between the EIA and Census systems appears in Imports of liquefied petroleum

gases (LPG), where the Census data show a much higher level of imports than EIA data. This occurs because the ERA-60 respondent frame was built by mon-Itoring importers of licensed products and LPGs are not licensed products. Therefore, respondents that import only LPGs have not been identified, and do not report these imports to the Department of Energy. Since these importers are required to file form 7501 with the U.S. Customs Service, EIA obtains data on Imports of LPGs from Census Tabulation IM-145. Additional data taken from the IM-145 are relatively small quantities of naphtha- and kerosene-type jet fuels, distillate fuel oils, and residual fuel oils withdrawn from bonded storage for use in International trade. Even though these duty-free fuels are stored on United States shores, they did not enter the United States for domestic consumption and therefore are not included in the ERA-60 reporting sys-

Stock Withdrawal (+) or Addition (-) Is calculated by subtracting stocks at the end of the month from stocks at the beginning of the same month. (Note: The beginning stocks of one month are equal to the ending stocks of the previous month.) A positive result (+) would represent a withdrawal from stocks and an increase in petroleum supplies distributed for domestic consumption. A negative result (-) would represent a buildup of stocks and a reduction in the amount of petroleum supplies distributed for domestic consumption. For a description of survey forms used to make stock withdrawal or addition calculations see Explanatory Note 5.

Unaccounted-for Crude Oil is a balancing item that represents the difference between crude oil supply and disposition.

Crude oil supply is the sum of field production, imports and stock withdrawals or additions. Crude oil disposition is the sum of exports, refinery input, losses and product supplied. Unaccounted-for crude oil is calculated by subtracting crude oil supplies from crude oil disposition. A positive result indicates that refiners and exporters reported use of more crude oil than was reported to have been available to them. (This occurs, for example, when imports are undercounted due to late reporting or other problems.) A negative result would indicate that more crude oil was reported to have been supplied to refiners and exporters than they reported used.

Note 3: Domestic Crude Oil Production

Data for the Crude Oil Production System (COPS) are reported to the Department of Energy by each of the State conservation agencies, which collect crude oil production values for tax purposes. The U.S. Geological Survey reports the volume of crude oil that is produced offshore in Federally-owned waters. With the exception of ten State conservation agencies, all of these reports are received monthly. After each calendar year, these monthly numbers are updated using the annual reports

from the State conservation agencies and the U.S. Geological Survey. The ten States that do not report monthly values are Indiana, Kentucky, Missouri, Arkansas, Utah, New York, Ohio, Pennsylvania, West Virginia, and Wyoming. Monthly values are estimated for these States using the Individual linear trends of their historical annual crude oil production values.

There is a time lag of approximately 4 months between the end of the reporting month and the time when the monthly COPS information becomes available. Table 11 of this publication provides information on crude oil production for the most recent month for which COPS values are available. In order to present more timely crude oil production values, the EIA's Dallas Field Office prepares a series of State level estimates which are based on historical production patterns and are summed to obtain the monthly crude oil production values shown in the summary statistics of this publication.

The Individual State level estimates are either exponential curve fitted projections based on recent data or are constant level projections based on the average production rate during a recent time period. In some cases, adjustments are made to these estimates based on additional information on expected changes in production rates supplied by a State agency, a trade association, or an Individual field operator.

Note 4: Disposition

The components of petroleum disposition are crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

Crude Oil Losses Is the sum of crude oil losses at refineries. Crude oil losses at refineries are reported on Form EIA-810, *Refinery Report*.

Refinery Inputs of crude oil, natural gas plant ilquids, and other Ilquids are reported monthly on survey Form EIA-810, Monthly Refinery Report. Published inputs of unfinished oils and of motor and aviation gasoline biending components equal refinery input minus refinery output. Refinery inputs of finished petroleum products are reported on a net basis under refinery production.

Exports of crude oil and petroleum products are compiled from Census Bureau tabulations EM-522 and EM-594. Exports include crude oil shipments to Puerto Rico, the Virgin Islands, and the Hawallan Foreign Trade Zone, which are obtained from refinery receipts reported on Form EIA-810, by refineries located in these places.

Product Supplied for each product is calculated by summing field production plus refinery production, pius imports, plus stock withdrawal or minus stock addition, minus crude oil iosses (plus net receipts when calculated on a PAD District basis), minus re-

finery input, minus exports. This formula ensures that total disposition equals total supply.

Products supplied indicates those quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of that product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported, (2) data were misreported or reported late, (3) in the case of calculations on a PAD District basis, the figure for net receipts was inaccurate because the coverage of interdistrict movements was incomplete.

Product supplied for crude oil is the sum of crude oil burned on leases and by pipelines as fuel oil. These data are reported on Form EIA-813, Monthly Crude Oil Report. Prior to January 1983, crude oil burned on leases and by pipelines as fuel oil were reported as either distillate or residual fuel oil and included in product supplied for these products.

Note 5: Stocks

Primary stocks of crude oil are the sum of ending stocks reported monthly on Form EIA-810, Monthly Refinery Report, and on Form EIA-813, Monthly Crude Oil Report. Crude oil held in the Strategic Petroleum Reserve is included unless otherwise noted. Alaskan crude oil in transit is also included. Stocks of crude oil are also reported weekly on Form EIA-800, Weekly Refinery Report, and on Form EIA-803, Weekly Crude Oil Stocks Report. Primary stocks of petroleum products are summed from data reported on Form EIA-816, Monthly Natural Gas Liquids Report, Form EIA-810. Monthly Refinery Report, Form EIA-811, Monthly Bulk Terminal Report, and on Form EIA-812, Monthly Product Pipeline Report. Primary stocks of petroleum products do not include either secondary stocks held by dealers and jobbers or stocks held by consumers. Petroleum product stocks are also reported weekly on Form EIA-800, Weekly Refinery Report, Form EIA-801, Weekly Bulk Terminal Report, and Form EIA-802, Weekly Crude Oil Stocks Report. For survey descriptions and other details, see Explanatory Notes 1.1 - 1.3.

Note 6: Average Stock Levels

The graphs displaying monthly stock levels of crude oil, motor gasoline, distillate fuel oil, residual fuel oil, and liquefled petroleum gases provide the user with recent data as well as a summary of data from January through December or from July through June for the most recent 3-year period. This summary takes the form of an average range that includes seasonal variation determined from a longer time period. The average range represents the historical pattern; it is not a forecast.

These curves are updated semiannually (in April and October), by basing the average ranges on a more recent time period. Each 3-year data series is adjusted by dropping the first 6 months and including the most recent 6 months.

For each data series, the monthly seasonal factors are estimated by means of a seasonal adjustment technique developed at the Bureau of the Census (Census X-11). The seasonal factors are assumed to be stable (l.e., unchanging from year to year) and additive. The series is deseasonalized by subtracting the seasonal factor for the appropriate month from the reported stock levels. The intent of deseasonalization is to remove only seasonal variation from the data. Thus, a deseasonalized series would contain the same trends and irregularities as the original data. The seasonal factors for distillate fuel oil, residual fuel oil, and liquefied petroleum gases were derived using monthly data for 1977-1983. For motor gasoline, the seasonal factors are based on monthly data for 1978-1983. In 1977, there was virtually no seasonal behavior in motor gasoline stocks. Monthly stock levels stayed at the same high level for the entire year.

After seasonal factors are derived, the most recent 3-year period (from January through December or from July through June) is deseasonalized. The average of the deseasonalized 36-month series determines the midpoint of the deseasonalized average band. The standard error of the deseasonalized 36 months is calculated adjusting for extreme data points. The width of the average range is twice this standard error.

The upper curve of the average range is defined as the average plus the seasonal factors plus the standard error. The lower curve is defined as the average plus the seasonal factors minus the standard error.

Note 7: Movements

Movements of crude oil between PAD Districts are reported on Form EIA-817, Monthly Tanker and Barge Movement Report, and on Form EIA-813, Monthly Crude Oil Report. Petroleum product movements are reported on Forms EIA-817, Monthly Tanker and Barge Movement Report, and EIA-812, Monthly Product Pipeline Report. Net receipts is the difference between total movements into and total movements out of each PAD District by pipeline, tanker, and barge. For survey descriptions and other detail, see Explanatory Note 1.2.

Note 8: Preliminary Monthly Statistics

Weekly data (Forms EIA-800, 801, 802, 803, and 804) are used to estimate the most recent monthly values for the Summary Statistics section. Since some of the weekly reporting periods overlap two adjacent months,

It is necessary to use weighting factors in the calculation of the monthly values.

To estimate crude oil and petroleum product imports, crude oil input to refinerles and production of petroleum products for a specific month, the weekly estimates are weighted by the number of days of that month included in each week, then summed.

End-of-month stock levels of crude oil and the major products (motor gasoline, distillate fuel oil, and residual fuel oil) are calculated in a similar manner, but use only the two weekly reporting periods that cover the end-of-week stocks before and after the end of the month. The end-of-month stock level is calculated by first calculating the stock change between the two weeks. The daily stock change between the two end-of-week stock levels is then calculated. This number is multiplied by the weighting factor of the earlier of the two weeks (the week that covers the last day of the month of interest). This change is added to the earlier of the two end-of-week stock levels to estimate the end-of-month stock level.

Preliminary monthly estimates of domestic crude oil production are calculated as described in Explanatory Note 3.

Note 9: Notes on Tables

Note 9.1 Crude Oil and Petroleum Products Overview statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Crude Oil and Petroleum Products Stock Withdrawai (+) or Addition (-), Petroleum Products Supplied, Total Imports, Crude Oil Imports, Total Exports, and Crude Oil Exports appear as labeled in Table 4. Total Production and Crude Oil Production appear under Field Production in Table 4.
- Natural Gas Plant Production is the sum of Natural Gas Liquids and Finished Petroleum Products Field Production in Table 4.
- Petroleum Products Imports Is the sum of Natural Gas Liquids and LRGs, Other Liquids, and Finished Petroleum Products Imports In Table 4.
- Total Crude OII and Petroleum Products Ending Stocks appear in thousand barrels in Table 2.

Note 9.2 Crude Oil Supply and Disposition statistics on the referenced line appear in Table 1 of the Detailed Statistics, except where noted.

• Total Domestic Field Production, Alaskan Field Production, SPR Imports, Other Imports (synonymous with Imports Gross Excl. SPR), SPR and Other Primary Stocks Withdrawal (+) or Addition (-), Unac-

counted For Crude Oll, Refinery Inputs, and Exports appear as labeled in Table 1.

- Crude Losses and Product Supplied appear as labeled in Table 4.
- SPR Ending Stocks and Other Primary Ending Stocks (synonymous with stocks excluding SPR) appear in thousand barrels in Table 1.
- Total Crude Oil Ending Stocks appear in thousand barrels in Table 2.
- Total Imports appear in Table 4.

Note 9.3 Finished Motor Gasoline Supply and Disposition statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawai (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4.
- Unleaded Percent of Total Product Supplied represents the ratio of finished unleaded motor gasoline product supplied to total finished motor gasoline product supplied, multiplied by 100 and rounded to the nearest tenth.
- Ending stocks are aggregated from ending stocks in thousand barrels in Table 2.

Note 9.4 Distillate and Residual Fuel Oil Supply and Disposition statistics on the referenced lines appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4.
- Ending Stocks appear in thousand barrels in Table

Note 9.5 Liquefied Petroleum Gases Supply and Disposition statistics represent the aggregation of statistics on ethane, propane, butane, butane-propane mixtures, ethane-propane mixtures, and isobutane. The statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stocks Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied appear as labeled in Table 4.

• Ending stocks appear in thousand barrels in Table 2.

Note 9.6 Other Petroleum Products Supply and Disposition statistics represent the aggregation of statistics on natural gasoline, isopentane, unfractionated stream, plant condensate, other liquids, and all finished petroleum products except finished motor gasoline, distillate fuel oil, and residual fuel oil. The statistics on the referenced line are aggregated from Table 4 of the Detalled Statistics, except where noted.

- Total Production is the aggregated sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied are aggregated from Table 4.
- Ending stocks are aggregated from ending stocks in thousand barrels in Table 2.

Note 9.7 Table 1. U.S. Petroleum Balance

- Lines (1) through (3): Crude oil (including lease condensate) production for Alaska, Lower 48 States, and Total U.S. are calculated by calling the conservation agency in Alaska for Alaskan crude oil production during the month, estimating crude oil production in the United States (see Explanatory Note 3), and taking the difference to equal production in the Lower 48 States.
- Line (5): SPR imports are reported on Survey Form ERA-60.
- Line (12): Total Other Sources equals crude oil stock withdrawal (+) or addition (-) plus unaccounted for crude oil minus crude losses in Table 2.
- Line (14): Natural gas plant liquids (NGPL) *Production* equals field production of natural gas liquids (NGL) plus field production of finished petroleum products in Table 2.
- Line (15): NGPL *imports* equals the sum of the imports of natural gasoline and isopentane, unfractionated stream, and plant condensate imports in Table 2.
- Line (16): NGPL Stock Withdrawal (+) or Addition
 is equal to the sum of stock withdrawal (+) or addition
 of natural gasoline and isopentane, unfractionated stream, and plant condensate in Table 2.
- Line (17) equals the sum of lines (14), (15), and (16).
- Line (18): Unfinished oils and gasoline blending components Stock Withdrawal (+) or Addition (-) equals stock withdrawal (+) or addition (-) for other hydrocarbons and alcohol, for unfinished oils, motor gasoline blending components, and aviation gasoline blending components.

- Line (20): Other Hydrocarbons and Alcohol New Supply equals the field production of same in Table 2.
- Line (21): Refinery Processing Gain Is a balancing Item equal to total refinery production minus total refinery input in Table 2.
- Line (23): Total Other Liquids equals the sum of lines (18) through (22).
- Line (24): Total Production of Products equals crude oil input to refineries plus field production of NGPL and finished petroleum products; plus imports of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of natural gasoline and Isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus imports of unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; plus crude oli product supplied in Table 2.
- Line (25): Gross Imports of Refined Products equals imports of LPG plus Imports of finished petroleum products in Table 2.
- Line (26): Exports of Refined Products equals exports of LPG plus exports of finished petroleum products In Table 2.
- Line (27): Net Imports of Refined Products equals the difference between lines (25) and (26).
- Line (28): Total New Supply of Products equals crude oil input to refinerles plus field production of NGPL and finished petroleum products; plus imports of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus imports of unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; minus crude oil product supplied plus imports of LPG and finished petroleum products; minus exports of LPG and finished petroleum products in Table 2.
- Line (29): Refined Products Stocks Withdrawal (+) or Addition (-) equals the sum of stock withdrawal (+) or addition (-) for LPG and finished petroleum products in Table 2.
- Line (30): Total Petroleum Products Supplied for Domestic Use equals total products supplied in Table 2

- Lines (31) through (35) equal the respective products supplied in Table 2.
- Line (36): Other Products Supplied equals the sum of natural gasoline and Isopentane, unfractionated stream, plant condensate, aviation gasoline, naphtha < 400 Deg. F for petrochemical feedstock use, other oils > 400 Deg. F. for petrochemical feedstock use, special naphthas, lubricants, waxes, coke, asphalt, road oil, still gas, unfinished oils, motor gasoline blending components, aviation gasoline blending components and miscellaneous products supplied in Table 2.
- Line (37): Total Product Supplied is equal to total products supplied in Table 2.
- The sum of lines (38) and (39), stocks of *Crude Oil* and Lease Condensate (Excluding SPR) and stocks held by the Strategic Petroleum Reserve, equals ending stocks of crude oil in Table 2. SPR stocks are reported on Form EIA-813.
- Line (43): stocks of Refined Products, equals the sum of LPG and finished petroleum product stocks in Table 2.

Note 10: New Stock Basis

In January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and plpellne surveys affecting subsequent stocks reported and stock withdrawal calculations. Using the expanded coverage (new basis), the end-of-year stocks, in million barrels, would have been:

- Crude OII: 1982 645 (Total) and 351 (Other Primary).
- Crude Oll and Petroleum Products: 1974 1,121;
 1980 1,420; and 1982 1,462.
- Motor Gasoline: 1974 225; 1980 263; 1982 244 (Total) and 203 (Finished).
- Distillate Fuel OII: 1974 224; 1980 205; and 1982 186
- Residual Fuel OII: 1974 75; 1980 91; and 1982 68.
- Liquefled Petroleum Gases: 1974 113; 1980 128; and 1982 - 103.
- Other Petroleum Products: 1974 220; 1980 249; and 1982 - 259.
- Stock withdrawal calculations beginning in 1975, 1981, 1983 were made using new basis stock levels.

in January 1984, changes were made in the reporting of natural gas liquids. As a result, unfractionated stream, which was formerly included in "Other Petroleum Products Supply and Disposition" table in the Summary Statistics, is now reported on a component basis (ethane, propane, normal butane, isobutane and pentanes plus). Most of these stocks will now appear in the "Liquefied Petroleum Gases Supply and Disposition" table of the Summary Statistics. This change will affect stocks reported and stock withdrawais in each table. Under the new basis, end-of-year 1983 stocks, in million barrels, would have been:

Liquefied Petroleum Gases: 1983 · 108

• Other Petroleum Products: 1983 - 248

Note 11: Stocks of Alaskan Crude Oil

Stocks of Alaskan crude oil in transit were included for the first time in January 1981. The major impact of this change is on the reporting of stock withdrawal calculations. Using the expanded coverage (new basis), 1980 end-of-year stocks, in million barrels, would have been 488 (Total) and 380 (Other Primary).

Note 12: Changes in Petroleum Industry Reporting

Petroleum statistics contained in this report for all years through 1980 were developed using definitions, concepts, reporting procedures and aggregation methods that are consistent with those developed by the U.S. Bureau of Mines. Research conducted by the Energy Information Administration in 1979 and 1980 Indicated that changes had occurred in the petroleum industry that were not being adequately reflected in EIA's reporting systems.

EIA reporting forms, definitions, and procedures were modified beginning in January 1981 to describe industry operations more accurately. Unfortunately, empirical information is not available to precisely measure the data shortcomings throughout 1980. However, estimates of the magnitudes of differences in the major

data series are described below to form a basis for comparing 1979, 1980, and 1981 data.

Motor Gasoline

Prior to 1979, the EIA product-supplied series for motor gasoline was consistently about 2 percent lower than the Federal Highway Administration (FHWA) gasolinesales data series, which is derived from State tax recelpts. This difference increased to about 4 percent in 1979 and 5 percent in 1980. There are two primary causes for this growing difference. First, refinery operations, particularly the flows of unfinished olis and the redesignation of some finished products, were not being accurately described on the EiA survey forms. Second, a large amount of gasoline was being produced away from refinerles at "downstream blending stations" to take advantage of provisions in regulations governing the amount of lead that could be added. These blending stations were not reporting gasoline production to the EIA until the data system was changed in January 1981.

Quantitative estimates of the magnitude of the difference—In EIA's gasoline product supplied data in 1979 and 1980 have been made by the EIA and the American Petroleum institute (API). The following table provides 1979 and 1980 data as published in the Petroleum Statement Annual, as well as EIA and API estimates of "recast" motor gasoline product supplied. EIA recast estimates were based upon preliminary monthly information in the Monthly Petroleum Statement. The ranges displayed in the EIA column reflect uncertainty in the estimates. Also shown are the FHWA motor gasoline sales statistics for those years. EIA has recently published a study of the quality of these FHWA data.

Office of Energy Information Validation, Energy Information Administration, U.S. Department of Energy, Error Profile of the Motor Fuel Taxation Data used to Establish and Monitor State Emergency Conservation Targets (Washington, D.C: December, 1981).

Finished Motor Gasoline Product Supplied on Oid and New Basis (Thousand Barrels per Day)

		19	179			19	980	
•	EIA Reported	APi Recast	EIA Recast	FHWA1	EIA Reported	API Recast	EIA Recast	FHWA'
Jan	6,830	7,230	7,084- 7,246	6,984	6,323	6,789	6,630- 6,791	6,672
Feb	7,254	7,496	7,389- 7,568	7,538	6,596	6,983	6,831- 7,003	6,830
Mar	7,229	7,414	7,301- 7,463	7,316	6,406	6,753	6,607- 6,768	6,713
Apr	7,055	7,300	7,187- 7,353	7,375	6,800	7,014	6,886- 7,052	6,981
May	7,213	7,429	7,313- 7,475	7,428	6,729	6,954	6,823- 6,984	7,044
Jun	7,191	7,483	7,350- 7,516	7,441	6,657	6,966	6,824- 6,991	7,049
Jul	6,902	7,241	7,105- 7,266	7,299	6,743	6,973	6,960	7,132
Aug	7,330	7,546	7,426- 7,588	7,619	6,648	6,841	6,828	7,090
Sep	6,881	7,122	7,016- 7,262	7,232	6,510	6,692	6,962	6,685
Nov	6,791	7,068	6,956- 7,122	7,142	6,234	6,507	6,516	6,951
Dec	6,730	7,106	6,966- 7,127	7,064	6,632	6,948	6,936	6,993
Average	7,034	7,302	7,183- 7,347	7,309	6,579	6,882	6,806- 6,889	6,925

^{&#}x27;FHWA gasoline statistics published in their 1979 Table MF-33G, 08-06-80, contain aviation gasoline as well as motor gasoline. Only motor gasoline data are included in published 1980 data. Consequently, the 1979 data shown above were reduced by subtracting aviation gasoline product supplied quantities as published by EIA in the 1979 *Petroleum Statement Annual*. The 1980 FHWA data published in their 1980 Table MF-33GA, August 1981, did not require this adjustment.

Distillate and Residual Fuel Oil

Distiliate and residual fuel oil refinery production statistics through 1980 were adjusted to account for an imbalance between unfinished oil supply and disposition. The reported quantities of refinery inputs of unfinished oils typically exceed the available supply of unfinished oils. It has been assumed that this occurs when distillate and residual fuel oil produced by a refinery is shipped to another refinery, where it is treated as unfinished oil. This oil is then reprocessed rather than used or sold as distiliate or residual fuel oil.

For many years (including 1980), the difference between unfinished oil disposition and supply was subtracted from distillate and residual fuel oil production to adjust for this discrepancy. Two-thirds of the difference was applied to distillate, and one-third to residual fuel oil.

Beginning in January 1981 this adjustment was discontinued because there was not sufficient empirical evidence to support it. The following table presents distillate and residual fuel oil refinery production in 1980 as published (adjusted) and on the same basis as 1981 statistics are now being completed (unadjusted) to permit comparison between 1980 and 1981 data series. Adjusted distillate and residual fuel oil product supplied volumes differ from the unadjusted volumes by the same amounts as the adjusted and unadjusted production volumes.

Adjusted and Unadjusted Refinery Production, and Unadjusted Product Supplied of Distillate and Residual Fuel Oils, by Month for 1979 and 1980 (Thousand Barrels Per Day)
1979

		Distillate	Fuel OII			Residua	al Fuel OII	
Month	Adj. Ref. Prod.	Unadj. Ref. Prod.	Dlff.	Unadj. Product Supplied	Adj. Ref. Prod.	Unadj. Ref. Prod.	Diff.	Unadj. Product Supplled
Jan.	3,043	3,108	65	4,646	1,912	1,946	34	3,594
Feb.	2,888	2,945	57	4,869	1,792	1,822	30	3,625
Mar.	3,019	3,026	7	3,671	1,719	1,723	4	3,243
Apr.	2,945	2,978	32	3,048	1,639	1,656	17	2,524
May	3,066	3,093	27	3,025	1,586	1,600	14	2,517
Jun.	3,153	3,187	35	2,743	1,548	1,566	18	2,601
Jul.	3,305	3,344	38	2,601	1,575	1,594	20	2,471
Aug.	3,321	3,359	38	2,799	1,584	1,603	20	2,570
Sep.	3,354	3,306	- 48	2,599	1,627	1,602	- 2 5	2,584
Oct.	3,251	3,217	- 34	3,085	1,629	1,612	– 17	2,523
Nov.	3,239	3,200	- 39	3,208	1,736	1,716	- 20	2,795
Dec.	3,221	3,238	17	3,725	1,894	1,903	9	3,022
Average	3,152	3,169	16	3,327	1,687	1,695	8	2,834

1980

		Distillate	Fuel Oli			Residual	Fuel OII	
Month	Adj. Ref. Prod.	Unadj. Ref. Prod.	Dlff.	Unadj. Product Supplied	Adj. Ref. Prod.	Unadj. Ref. Prod.	DIff.	Unadj. Product Supplied
Jan.	3,013	3,093	80	3,794	1,771	1,812	41	3,108
Feb.	2,766	2,888	· 122	3,834	1,773	1,836	63	3,168
Mar.	2,557	2,690	133	3,312	1,584	1,652	68	2,726
Apr.	2,460	2,554	94	2,729	1,595	1,643	48	2,492
May	2,474	2,610	136	2,538	1,509	1,579	70	2,305
Jun.	2,646	2,721	75	2,392	1,575	1,613	38	2,359
Jul.	2,689	2,783	94	2,343	1,480	1,528	48	2,339
Aug.	2,461	2,582	121	2,258	1,444	1,506	62	2,348
Sep.	2,686	2,726	40	2,627	1,495	1,516	21	2,380
Oct.	2,589	2,650	61	2,981	1,512	1,543	31	2,258
Nov.	2,703	2,823	120	3,069	1,579	1,641	62	2,513
Dec.	2,891	3,052	161	3,776	1,660	1,743	83	2,762
Average	2,661	2,764	103	2,969	1,580	1,634	54	2,562

Total Petroleum Products

The Imbalance between the supply and disposition of unfinished oils and gasoline blending components is included with other products (line 35) in the U.S. Petroleum Balance (Table 1). These imbalances are reported as negative product supplied in the Other Liquids sec-

tion, Supply and Disposition Statistics (Table 2). Since these changes only involve redistribution of the volumes of gasoline, distillate and residual fuel oil, gasoline blending components, and unfinished oils, the total volume of petroleum products supplied remains unaffected by them.

Note 13: NGL Import/Export Algorithms

Beginning In January 1984, the Energy Information Administration (EIA) implemented changes in the reporting of natural gas liquid (NGL) supply data, moving from a nine-product slate to a five-component slate that corresponds to industry record-keeping practices. Changes could not be made to the import and export systems. Therefore, in order to allocate imports and exports of mixed NGL streams to individual component parts, the EIA developed a statistical algorithm.

Imports

The imports algorithm is based on information gathered from the larger importers of NGL, who were asked to provide component analyses of the products they imported during the first six months of 1983. The percentages shown in Exhibit 1 are derived from the weighted averages of the data provided by the importers.

EXHIBIT 1. ALGORITHMS FOR ALLOCATING NGL IMPORTS

PRODUCT SLATE	Ethane	Propane	Normal butane	Isobutane	Pentanes Plus
Natural Gasoline & Isopentane (EIA-814)					100%
Plant Condensate (EIA-814)					100%
Ethane (IM-145)	100%				
Butane (IM-145)			60%	40%	
Butane-Propane Mixtures (IM-145)		40%	35%	20%	5%
Ethane-Propane Mixtures (IM-145)	80%	20%			

Exports

The export algorithm is based on information gathered from the larger exporters of NGL, who were asked to provide component analyses of the products they

exported during 1983. The percentages shown in Exhib-It 2 are derived from the weighted averages of the data provided by the exporters. It was necessary to derive percentages by PAD of exportation, due to the wide variation of components in the mixed streams.

EXHIBIT 2. ALGORITHMS FOR ALLOCATING NGL EXPORTS

PRODUCT	P.A.D.	Ethane	El. Propane	A Component Si Normal Butane	late Isobutane	Pentanes Plus
Ethane	All	100%				
Propane	All		100%			
Butane	All			100%		
Mixed Streams	I, IV, V II III	30%	40% 25% 80%	60% 15% 20%	15%	15%



DOE F 1340.1 (2-80)

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